

| PROJECT         | CUSTOMER | TRAIN     |
|-----------------|----------|-----------|
| Xtrapolis-PRASA | PRASA    | 312 – TFS |

RTR Train Functional Static Testing TS312 Report  
GIB0000008899



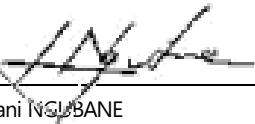
|           | CREATED               | VERIFIED        | APPROVED        | DISTRIBUTION                                                                                                                                                        |
|-----------|-----------------------|-----------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name      | Tshegofatso SETSHOGWE | Lindani NGUBANE | Kgomotso NKOANA | Confidentiality Category<br><i>Restricted</i> <i>Project</i> <i>Normal</i><br><input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |
| Date      | 20/11/2025            | 20/11/2025      | 20/11/2025      | Control Category<br><i>Controlled</i> <i>Not Controlled</i><br><input checked="" type="checkbox"/> <input type="checkbox"/>                                         |
| Signature |                       |                 |                 | Language<br><b>EN</b>                                                                                                                                               |

This report has been automatically generated from TES version 1

## Table of modifications

| Rev | Date       | Modifications Content | Writer                |
|-----|------------|-----------------------|-----------------------|
| A0  | 20/11/2025 | Creation              | Tshegofatso SETSHOGWE |

## Internal validations

|                 | Name                  | Function            | Date       | Signature                                                                               |
|-----------------|-----------------------|---------------------|------------|-----------------------------------------------------------------------------------------|
| <b>Creator</b>  | Tshegofatso SETSHOGWE | EPU Manager         | 20/11/2025 | X    |
|                 |                       |                     |            | Tshegofatso SETSHOGWE<br>EPU Manager                                                    |
| <b>Verifier</b> | Lindani NGUBANE       | Serial Test Manager | 20/11/2025 | X  |
|                 |                       |                     |            | Lindani NGUBANE<br>Serial Test Manager                                                  |
| <b>Approver</b> | Kgomotso NKOANA       | Test Expert         | 20/11/2025 | X  |
|                 |                       |                     |            | Kgomotso NKOANA<br>Test Expert                                                          |

## Execution Plan

|                   |            |
|-------------------|------------|
| <b>Start Date</b> | 15/11/2025 |
| <b>End Date</b>   | 20/11/2025 |

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## Section 1 – Purpose / Objectives

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1. NRG - The purpose of this test is to ensure that all high voltage cables and equipment are connected correctly.
2. NET - The purpose of this test is to verify the connection of the Ethernet wiring for the TCMS and Pacis network loop.
3. NRG 110 - The purpose of this test is to verify the presence of 110V DC permanent power on the train and the activation on the cab on both TC1 and TC2
4. MCB - The purpose of this test is to verify the correct operation of the High-Speed Circuit Breaker.
5. NRG 400 - The purpose of this test is to ensure the correct operation of all equipment supplied by 400V AC.
6. CAB - The purpose of this test is to verify to correct operation of each cabin.
7. INT - The purpose of this test is to verify the correct operation of the Emergency lighting and normal lighting in the train.
8. PNT - The purpose of this test is to verify the operation of the pantographs and air supply.
9. AIR - The purpose of this test is to verify the compressor operation on the train as well as to determine any leaks in the main piping system.
10. MCB - The purpose of this test is to ensure that all the safety circuit breakers are closed and they are properly monitored through the TCMS software
11. HVAC - The purpose of this test is to verify the Heating, cooling and ventilation of each car. The correct temperature response is verified.
12. DRC - The purpose of this test is to verify the correct driving operation modes and commands.
13. PBK - The purpose of this test is to verify the correct operation of both the manual and remote parking brake.
14. SBK - The purpose of this test is to verify the correct operation of the service brake system. This system integrates the mechanical and electrical braking together. Both must be fully operational.
15. EBK - The purpose of this test is to verify the correct operation of the mechanical braking system.
16. FSD - The purpose of this test is to verify the correct operation of the fire detection system.



|                                                                               |                                                    |                             |
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## Section 2 – High Voltage Distribution

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### 2.1 Instructions list

## 2.1.1 High Voltage Distribution

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | File | Result status | Result value | Operator                                | Vehicle |
|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|--------------|-----------------------------------------|---------|
| 10001 | I    | Check the power lines, Non-earthed key                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10002 | I    | <p>For the following tests, the train should not have the presence of high voltage "3KV"</p> <p>The earthing switch of 10A11 boxes must be out of ground position</p> <p>Make sure all power lines not suffer attrition with the rail infrastructure, terminals, resistance and pantographs are fixed with proper torque and there is no tool or material on the roof of the train.</p> <p>At Depot, when it is necessary to access the train roof, person who is responsible for the activity should apply working knowledge in height with appropriate equipment.</p> <p>If there is any change to the train or it's environment this check becomes invalid. Please be sure that the check on the train status is done before reconnecting it.</p> |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10003 | A    | Apply LOTO procedure on the High Voltage Catenary before commencing with the procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10004 | I    | High Voltage Line Continuity Check                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10005 | I    | TC1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10006 | A    | Check continuity on TC1 car, from Converter Auxiliary Connector 18XT11 point HV- cable (#2UP-W_1) to the car body shell/ground.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10007 | R    | There is continuity. Cables are visually connected, and bolts are torqued.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10008 | I    | Check continuity of the following cables using a long wire, do not short any point to ground.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10009 | A    | On TC1 car, from Converter Auxiliary Connector 18XT11 point HV+ cable (#1UP-W_1) to M4 car Propulsion Box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |

|       |   |                                                                                                                                                      |  |    |  |                                         |       |
|-------|---|------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|-----------------------------------------|-------|
|       |   | Connector 10XT12 point TR1 cable (#1UG-UK_3)                                                                                                         |  |    |  |                                         |       |
| 10010 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                           |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10011 | A | On M4 car, from Propulsion Box Connector 10XT12 point TR1 cable (#1UG-UK_3) to M1 car High Voltage Box Connector 10XT11_HT1 point 3 cable (#1UM-V_2) |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10012 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                           |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10013 | A | On M1 car, from Propulsion Box Connector 10XT12 point TR1 cable (#1UG-UK_2) to High Voltage Box Connector 10XT11_HT2 point 1 cable (#1UK-UM_1)       |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10014 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                           |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10015 | A | On M1 car, from Propulsion Box Connector 10XT12 point TR1 cable (#1UG-UK_2) to car body/ Ground Wire                                                 |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10016 | R | There is NO continuity.                                                                                                                              |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10017 | I | TC1 HV IES                                                                                                                                           |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10018 | A | Check continuity on TC1 car, from Auxiliary Converter Connector 18XT11 IES cable (#3UP-W_1) TO M1 HV BOX 10XT11_HT1 Point 5                          |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10019 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                           |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10020 | A | Check continuity on M1 HV BOX 10XT11_HT1 Point 4 to M4 propulsion box 10XT12 TR2 Bus bar                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10021 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                           |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10022 | A | Check continuity on M1 HV BOX 10XT11_HT2 Point 2 to M1 propulsion box 10XT12 TR2 Bus bar                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10023 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                           |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10024 | I | TC2                                                                                                                                                  |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10025 | A | On M2 car, from Propulsion Box Connector 10XT12 point TR1 cable (#1UG-UK_2) to High Voltage Box                                                      |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |

|       |   |                                                                                                                                                        |  |    |  |                                         |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|-----------------------------------------|-------|
|       |   | Connector 10XT11_HT2 point 1 cable (#1UK-UM_1)                                                                                                         |  |    |  |                                         |       |
| 10026 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10027 | A | On M2 car, from Propulsion Box Connector 10XT12 point TR1 cable (#1UG-UK_2) to car body/ Ground Wire                                                   |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10028 | R | There is NO continuity.                                                                                                                                |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10029 | A | On M2 car, from High Voltage Box Connector 10XT11_HT1 point 3 cable (#1UM-V_2) to M3 car Propulsion Box Connector 10XT12 point TR1 cable (#1UG-UK_3)   |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10030 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10031 | A | On M3 car, From Propulsion Box Connector 10XT12 point TR1 cable (#1UG-UK_3) to TC2 car Converter Auxiliary Connector 18XT11 point HV+ cable (#1UP-W_1) |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10032 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10033 | A | Check continuity on TC2 car, from Converter Auxiliary Connector 18XT11 point HV- cable (#2UP-W_1) to the car body shell/ground.                        |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10034 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10035 | I | TC2 HV IES                                                                                                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10036 | A | Check continuity on TC2 car, from Auxiliary Converter Connector 18XT11 IES cable (#3UP-W_1) TO M2 HV BOX 10XT11_HT1 Point 5                            |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10037 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10038 | A | Check continuity on M2 HV BOX 10XT11_HT1 Point 4 to M3 propulsion box 10XT12 TR2 Bus bar                                                               |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10039 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10040 | A | Check continuity on M2 HV BOX 10XT11_HT1 Point 2 to M2 propulsion box 10XT12 TR2 Bus bar                                                               |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10041 | R | There is continuity. Cables are visually connected, and bolts are torqued.                                                                             |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |

|       |   |                                                                                                                             |                                                                                   |    |  |                                         |       |
|-------|---|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|--|-----------------------------------------|-------|
| 10042 | I | Train Earthing Procedure <a href="#">[11-52-3-247130_Isolation and Earthing of the Train.pdf]</a>                           |  | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10043 | A | Follow HSCB isolation procedure and isolate M1 & M2 HSCB                                                                    |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10044 | R | The train is successfully isolated and earthed.                                                                             |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10045 | A | Check continuity on TC1 car, from Converter Auxiliary Connector 18XT11 point HV+. HV- and IES to the car body shell/ground. |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10046 | R | There is continuity to ground on all 3 points                                                                               |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10047 | A | Check continuity on TC2 car, from Converter Auxiliary Connector 18XT11 point HV+. HV- and IES to the car body shell/ground. |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10048 | R | There is continuity to ground on all 3 points                                                                               |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10049 | A | Turn the train on using 18S1 switch                                                                                         |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10050 | R | Check on the high voltage screen if all HSCB's and pantographs are showing as isolated.                                     |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10051 | A | Normalize M1 & M2 HSCB                                                                                                      |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10052 | R | Check on the high voltage screen if all HSCB's and pantographs are showing as normalized.                                   |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10053 | A | Put back all the removed covers and tighten                                                                                 |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10054 | R | All covers are back and normalized                                                                                          |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10055 | I | End of Test                                                                                                                 |                                                                                   | OK |  | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |



|                                                                               |                                                    |                             |
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## Section 3 – Computer Network and DDU Screen

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### 3.1 Instructions list

### 3.1.1 Computer Network and DDU Screen

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                           | File | Result status | Result value | Operator                             | Vehicle |
|-------|------|-----------------------------------------------------------------------------------------------------------------------|------|---------------|--------------|--------------------------------------|---------|
| 10001 | I    | Computer Network and DDU Screen = SPP 025                                                                             |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10002 | I    | TCMS Network Loop                                                                                                     |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10003 | I    | This is a reflectometry test to check the TCMS complete loop                                                          |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10004 | I    | Please save each result on the Fluke using the cable number given per line                                            |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10005 | R    | There is good connection between CRS1-TC1[25A10] port X4 and CRS1-M1[25A10] port X3 TSX T01<br><br>Cable is crossed   |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10006 | R    | There is good connection between CRS4-TC1[25A13] port X3 and CRS1-M4[25A10] port X4 TSX T02<br><br>Cable is crossed   |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10007 | R    | There is good connection between TRS-TC1[25A15] port ETH3 and TBR-M4[25A14] port ETH0 TSX T03<br><br>Cable is crossed |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10008 | R    | There is good connection between TBR-TC1 [25A14]ETH1 and TBR-M1[25A14]ETH0 TSX T04<br><br>Cable is crossed            |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10009 | R    | There is good connection between TBR-M4[25A14]ETH1 and TBR-M2[25A14]ETH1 TSX T05<br><br>Cable is crossed              |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10010 | R    | There is good connection between CRS2-M4[25A11] port X3 and CRS2-M2[25A11] port X4 TSX T06<br><br>Cable is crossed    |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10011 | R    | There is good connection between CRS2-M1[25A11] port X4 and CRS2-M3[25A11] port X3 TSX T07                            |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |



|       |   |                                                                                                                 |  |    |  |                                      |       |
|-------|---|-----------------------------------------------------------------------------------------------------------------|--|----|--|--------------------------------------|-------|
|       |   | Cable is crossed                                                                                                |  |    |  |                                      |       |
| 10012 | R | There is good connection between TBR-M1[25A14]ETH1 and TBR-M3[25A14]ETH1 TSX T08<br>Cable is crossed            |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10013 | R | There is good connection between CRS1-M2[25A10] port X3 and CRS1-TC2[25A10] port X4 TSX T09<br>Cable is crossed |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10014 | R | There is good connection between TBR-M2[25A14]ETH0 and TBR-TC2[25A14]ETH1 TSX T10<br>Cable is crossed           |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10015 | R | There is good connection between CRS1-M3[25A10] port X4 and CRS3-TC2[25A12] port X3 TSX T11<br>Cable is crossed |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10016 | R | There is good connection between TBR-M3[25A14]ETH0 and TRS-TC2[25A15]ETH1 TSX T12<br>Cable is crossed           |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10017 | I | Pacis Network Loop                                                                                              |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10018 | R | There is good connection between TRS1-TC1[54A13]ETH7 and CRS1-M4[54A10]port X7 TSX P01<br>Cable is crossed      |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10019 | R | There is good connection between CRS1-TC1[54A10]port X7 and CRS2-M1[54A11]port X8 TSX P02<br>Cable is crossed   |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10020 | R | There is good connection between CRS2-M4[54A11]port X8 and CRS1-M2[54A10]port X7 TSX P03<br>Cable is crossed    |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10021 | R | There is good connection between CRS1-M1[54A10]port X7 and CRS2-M3[54A11]port X8 TSX P04<br>Cable is crossed    |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10022 | R | There is good connection between CRS2-M2[54A11]port X8 and CRS1-TC2[54A10]port X7 TSX P05<br>Cable is crossed   |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |

|       |   |                                                                                                                |  |    |   |                                         |       |
|-------|---|----------------------------------------------------------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10023 | R | There is good connection between CRS1-M3[54A10]port X7 and TRS1-TC2[54A13]ETH7 TSX P06<br><br>Cable is crossed |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10024 | A | Download the results from the Fluke into a PDF format and upload it below                                      |  | OK |   | Nokuzola Mdluli<br>491469<br>18.11.2025 | Train |
| 10025 | I | MCE Redundancy Test                                                                                            |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10026 | A | Switch ON the train in TC1 in Normal mode                                                                      |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10027 | I | MCE in TC1 should be the master MCE to begin the test                                                          |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10028 | R | Read Defined Variable [TT]<br>(MPU1)NET_LocalMcelsMaster = 1.0                                                 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10029 | R | Read Defined Variable [TT]<br>(MPU2)NET_LocalMcelsMaster = 0.0                                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10030 | A | Open the circuit breaker 40Q1 in TC1                                                                           |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10031 | I | The MCE in TC2 becomes the master MCE                                                                          |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)NET_LocalMcelsMaster = 1.0                                                 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10033 | A | Close circuit breaker 40Q1 in TC1                                                                              |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10034 | A | Open circuit breaker 40Q1 in TC2                                                                               |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10035 | I | The MCE in TC1 becomes the Master                                                                              |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10036 | R | Read Defined Variable [TT]<br>(MPU1)NET_LocalMcelsMaster = 1.0                                                 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10037 | A | Close the circuit breaker 40Q1 in TC2                                                                          |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)NET_LocalMcelsMaster = 1.0                                                 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10039 | R | Read Defined Variable [TT]<br>(MPU2)NET_LocalMcelsMaster = 0.0                                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025    | Train |
| 10040 | A | Go to software version on DDU and select RUN BL.                                                               |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025    | Train |

|       |   |                                       |  |    |  |                                      |       |
|-------|---|---------------------------------------|--|----|--|--------------------------------------|-------|
| 10041 | R | The Train Baseline is : 1.8/10.1/10.2 |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10042 | I | End of Test                           |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
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## Section 4 – Energy Distribution 110V

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### 4.1 Instructions list

#### 4.1.1 Energy Distribution 110V

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                                                                                                                                | File                                                                                | Result status | Result value | Operator                                             | Vehicle |
|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|------------------------------------------------------|---------|
| 10001 | I    | Energy Distribution 110V DC=SPP 015                                                                                                                                                                                        |                                                                                     | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                                                                                                                                                         |                                                                                     | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10003 | I    | Train powered in normal mode with only battery power                                                                                                                                                                       |                                                                                     | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10004 | A    | Activate Cab on TC1                                                                                                                                                                                                        |                                                                                     | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10005 | A    | Close the battery contactor 18S1                                                                                                                                                                                           |                                                                                     | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10006 | A    | Check on the DDU that all devices on TCMS network are in black colour i.e. successfully initialized                                                                                                                        |                                                                                     | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10007 | R    | After few minutes, the TCMS has successfully initialized on the DDU screen                                                                                                                                                 |                                                                                     | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10008 | A    | Check on the DDU that all devices on TCMS network are in black colour i.e. successfully initialized                                                                                                                        |  | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10009 | R    | The Battery Voltage on the Voltage line module is 110V                                                                                                                                                                     |                                                                                     | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10010 | R    | On the Driver Screen, the battery voltage is the same as in the line module (110V)                                                                                                                                         |                                                                                     | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train   |
| 10011 | I    | CVS Firmware Update/SW Update                                                                                                                                                                                              |  | OK            |              | Tshembhani Khosa<br>446920<br>20.11.2025             | Train   |
| 10012 | I    | When upgrading the software version ensure that both CVSs are online, and a train does not switch OFF and battery voltage should at least be 97V. Follow the instructions on the attachment for the upgrade in TC1 and TC2 |  | OK            |              | Tshembhani Khosa<br>446920<br>20.11.2025             | Train   |

|       |   |                                                                                                |  |    |  |                                                      |       |
|-------|---|------------------------------------------------------------------------------------------------|--|----|--|------------------------------------------------------|-------|
| 10013 | I | Power supply check for Equipment on Permanent line                                             |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10014 | R | The emergency Lighting is ON in TC1 saloon, left and right side in low brightness              |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10015 | R | The emergency Lighting is ON in M4 saloon, left and right side in low brightness               |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10016 | R | The emergency Lighting is ON in M1 saloon, left and right side in low brightness               |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10017 | R | The emergency Lighting is ON in M2 saloon, left and right side in low brightness               |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10018 | R | The emergency Lighting is ON in M3 saloon, left and right side in low brightness               |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10019 | R | The emergency Lighting is ON in TC2 saloon, left and right side in low brightness              |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10020 | A | Remove active cab on TC1                                                                       |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10021 | I | Train preparation on TC2 cab                                                                   |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10022 | A | Insert the Driver's Master key on TC2, turn it to ON position and close battery contactor 18S1 |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10023 | R | The emergency Lighting is ON in TC1 saloon, left and right side in low brightness              |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10024 | R | The emergency Lighting is ON in M4 saloon, left and right side in low brightness               |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10025 | R | The emergency Lighting is ON in M1 saloon, left and right side in low brightness               |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10026 | R | The emergency Lighting is ON in M2 saloon, left and right side in low brightness               |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |

|       |   |                                                                                                                                                  |  |    |  |                                                   |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|---------------------------------------------------|-------|
| 10027 | R | The emergency Lighting is ON in M3 saloon, left and right side in low brightness                                                                 |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10028 | R | The emergency Lighting is ON in TC2 saloon, left and right side in low brightness                                                                |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10029 | A | Shutdown the train by opening the battery contactor 18S1                                                                                         |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10030 | R | Train is successfully shutdown                                                                                                                   |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10031 | I | Battery Low Watchdog                                                                                                                             |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10032 | I | This test is to verify that the battery Watchdog relay is working, when the battery voltage drops below 93V DC, the train automatically shutdown |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10033 | A | On TC2, turn ON the cleaning lights switch 52S6                                                                                                  |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10034 | R | Emergency lighting is ON in all cars                                                                                                             |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10035 | A | Remove the relay 15K1 from its base                                                                                                              |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10036 | R | Emergency lighting is OFF in all cars                                                                                                            |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10037 | A | Put back the relay 15K1 on its base                                                                                                              |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10038 | A | Walk to the TC2 CVS Agate compartment and confirm that the CVS Agate is not powered                                                              |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10039 | R | The CVS Agate is OFF                                                                                                                             |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |
| 10040 | A | Switch On the train on TC1 side                                                                                                                  |  | OK |  | Hlawulani Nick Mabundzane<br>418320<br>17.11.2025 | Train |



|       |   |                                                                                     |  |    |  |                                                      |       |
|-------|---|-------------------------------------------------------------------------------------|--|----|--|------------------------------------------------------|-------|
| 10041 | A | Shutdown the train by opening the battery contactor 18S1                            |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10042 | A | Turn the switch 52S6 to switch ON the cleaning lights                               |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10043 | A | Remove the relay 15K1 from its base                                                 |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10044 | R | The emergency lighting is OFF in all cars                                           |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10045 | A | Put back the relay on its base                                                      |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10046 | A | Walk to the TC1 CVS Agate compartment and confirm that the CVS Agate is not powered |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10047 | R | The CVS Agate is OFF                                                                |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |
| 10048 | I | End of Test                                                                         |  | OK |  | Hlawulani Nick<br>Mabundzane<br>418320<br>17.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
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## Section 5 – Main Circuit Breaker Control

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### 5.1 Instructions list

### 5.1.1 Main Circuit Breaker Control

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                                                     | File | Result status | Result value | Operator                                | Vehicle |
|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|--------------|-----------------------------------------|---------|
| 10001 | I    | Main Circuit Breaker Control=SPP 022                                                                                                            |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                                                                              |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10003 | I    | This test is to verify the correct operation of the main high voltage circuit breaker.                                                          |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10004 | I    | Train in LV ready                                                                                                                               |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10005 | I    | The catenary should be switched OFF                                                                                                             |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10006 | I    | Circuit breaker 34Q1 should be closed in all Propulsion boxes                                                                                   |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10007 | I    | No Fire Detection alarm on the DDU screen                                                                                                       |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10008 | I    | Start Test                                                                                                                                      |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10009 | I    | HSCB control without High Voltage                                                                                                               |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10010 | I    | For this test, the HSCB control will be tested with no high voltage present to prevent degraded mode in the train in case there is wiring error |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10011 | I    | The button 27S5 should not be pressed on both cars                                                                                              |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10012 | A    | Active Cab on TC1                                                                                                                               |      | OK            |              | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10013 | R    | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_DEMCL_HSCB = 0.0                                                                                   |      | OK            | 0            | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10014 | R    | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_demcl_hscb = 0.0                                                                                   |      | OK            | 0            | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |
| 10015 | R    | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_demcl_hscb = 0.0                                                                                   |      | OK            | 0            | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train   |

|       |   |                                                               |  |    |   |                                         |       |
|-------|---|---------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10016 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_demcl_hscb = 0.0 |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10017 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_HSCB_CL = 0.0    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10018 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_hscb_cl = 0.0    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10019 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_hscb_cl = 0.0    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10020 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_hscb_cl = 0.0    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10021 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_HSCB_HOLD = 0.0  |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10022 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_hscb_hold = 0.0  |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_hscb_hold = 0.0  |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_hscb_hold = 0.0  |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10025 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_HSCB_OP = 1.0    |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_hscb_op = 1.0    |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_hscb_op = 1.0    |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_hscb_op = 1.0    |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10029 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m1hscbopenr2 = 1.0 |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10030 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m2hscbopenr1 = 1.0 |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10031 | A | Press the button 21S1 to raise<br>Pantographs                 |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10032 | A | Force [TT]<br>(MPU1)Lo_HSC_Tc1HSCBCLOSE_R1 =<br>1.0           |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10033 | A | Force [TT]<br>(MPU1)Lo_HSC_Tc1HSCBCLOSE_R2 =<br>1.0           |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |

|       |   |                                                                   |  |    |   |                                         |       |
|-------|---|-------------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10034 | A | Force [TT]<br>(MPU1)Lo_HSC_Tc2HSCBCLOSE_R1 = 1.0                  |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10035 | A | Force [TT]<br>(MPU1)Lo_HSC_Tc2HSCBCLOSE_R2 = 1.0                  |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10036 | R | Read Defined Variable [TT]<br>(MPU1)li_fsd_tc1firedetection = 0.0 |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10037 | R | Read Defined Variable [TT]<br>(MPU1)li_fsd_tc2firedetection = 0.0 |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_DEMCL_HSCB = 1.0     |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10039 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_demcl_hscb = 1.0     |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10040 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_demcl_hscb = 1.0     |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10041 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_demcl_hscb = 1.0     |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10042 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_HSCB_CL = 1.0        |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10043 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_hscb_cl = 1.0        |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_hscb_cl = 1.0        |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10045 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_hscb_cl = 1.0        |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10046 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_HSCB_HOLD = 1.0      |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10047 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_hscb_hold = 1.0      |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10048 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_hscb_hold = 1.0      |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10049 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_hscb_hold = 1.0      |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10050 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_HSCB_OP = 0.0        |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10051 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_hscb_op = 0.0        |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |

|       |   |                                                                                                                    |  |    |   |                                         |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10052 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_hscb_op = 0.0                                                         |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10053 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_hscb_op = 0.0                                                         |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10054 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m1hscbopenr2 = 0.0                                                      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10055 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m2hscbopenr2 = 0.0                                                      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10056 | A | Release [TT]<br>(MPU1)Lo_HSC_Tc1HSCBCLOSE_R1                                                                       |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10057 | A | Release [TT]<br>(MPU1)Lo_HSC_Tc1HSCBCLOSE_R2                                                                       |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10058 | A | Release [TT]<br>(MPU1)Lo_HSC_Tc2HSCBCLOSE_R1                                                                       |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10059 | A | Release [TT]<br>(MPU1)Lo_HSC_Tc2HSCBCLOSE_R2                                                                       |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10060 | A | Press the button 21S1 to lower<br>pantographs                                                                      |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10061 | I | Traction Converter Isolation TC1                                                                                   |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10062 | A | Switch ON the 3kV DC on the catenary                                                                               |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10063 | R | Verify on the line display that the catenary<br>voltage is 3kV DC on the line display<br>where the train is parked |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10064 | A | Press the button 21S1 to raise<br>pantographs                                                                      |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10065 | A | Press the button 22S11 to close HSCBs                                                                              |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10066 | R | Button lamp 22S11 is ON                                                                                            |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10067 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc1closehscbpbr1 = 1.0                                                  |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10068 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc2closehscbpbr1 = 0.0                                                  |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10069 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm12 = 0.0                                                  |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                         |       |
|-------|---|------------------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10070 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm34 = 0.0      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10071 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm12 = 0.0      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10072 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm34 = 0.0      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10073 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu1bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10074 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu2bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10075 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu3bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10076 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu4bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10077 | A | Put the Traction converter isolation switch<br>22S1 to ISOLATION M1/M2 |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10078 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm12 = 1.0      |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10079 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu1bypass = 1.0              |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10080 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu4bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10081 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm34 = 0.0      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10082 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu2bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10083 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu3bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10084 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc1closehscbr2 = 0.0        |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10085 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc2closehscbr2 = 1.0        |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10086 | A | Press the button 22S11 to close HSCB                                   |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10087 | A | Both HSCBs are closed                                                  |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |



|       |   |                                                                              |  |    |   |                                         |       |
|-------|---|------------------------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10088 | A | Put the Traction converter isolation switch 22S1 to NORMAL position          |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10089 | A | Open HSCBs                                                                   |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10090 | A | Press the virtual button RESET TRACTION FAULTS on the DDU maintenance screen |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10091 | A | Press the button 22S11 to close HSCB                                         |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10092 | A | Put the Traction converter isolation switch 22S1 to ISOLATION M3/M4          |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm12 = 0.0            |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm34 = 1.0            |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10095 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu1bypass = 0.0                    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10096 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu4bypass = 1.0                    |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10097 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu3bypass = 0.0                    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu2bypass = 0.0                    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10099 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc1closehscbr2 = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10100 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc2closehscbr2 = 1.0              |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10101 | A | Press the button 22S11 to close HSCB                                         |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10102 | A | Both HSCBs are closed                                                        |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10103 | A | Put the Traction converter isolation switch 22S1 to NORMAL position          |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10104 | A | Open HSCBs                                                                   |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10105 | A | Press the virtual button RESET TRACTION FAULTS on the DDU maintenance screen |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |

|       |   |                                                                              |  |    |   |                                         |       |
|-------|---|------------------------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10106 | A | Press the button 22S11 to close HSCB                                         |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10107 | A | Put the Traction converter isolation switch 22S1 to ISOLATION M1+M3/M2+M4    |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10108 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm12 = 1.0            |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10109 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm34 = 1.0            |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10110 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu1bypass = 1.0                    |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10111 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu2bypass = 0.0                    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10112 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu3bypass = 0.0                    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10113 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu4bypass = 1.0                    |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10114 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m1hscbopenr1 = 1.0                |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10115 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m2hscbopenr1 = 0.0                |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10116 | A | Put the Traction converter isolation switch 22S1 to NORMAL position          |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10117 | A | Press the button 22S11 to close HSCB                                         |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10118 | A | Press the virtual button RESET TRACTION FAULTS on the DDU maintenance screen |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10119 | R | All Traction units are in service and operational                            |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10120 | A | Press the button 22S12 to open the HSCBs                                     |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10121 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m1hscbopenr2 = 1.0                |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10122 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m2hscbopenr1 = 1.0                |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10123 | A | Press the button 21S1 to lower both pantographs                              |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |

|       |   |                                                                         |  |    |   |                                         |       |
|-------|---|-------------------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10124 | R | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 0.0                  |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10125 | A | Remove active cab on TC1                                                |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10126 | I | HSCB Operation with High Voltage                                        |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10127 | A | Active Cab on TC2                                                       |  | OK |   | Sizwe Sibanyoni<br>484647<br>17.11.2025 | Train |
| 10128 | A | Press the button 21S1 to raise both pantographs                         |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10129 | R | Both pantographs are raised successfully                                |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10130 | R | The voltage on the Line Voltage Indicator module is at least 2.7 kV DC  |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10131 | A | Press the button 22S11 to close HSCBs                                   |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10132 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r2 = 0.0    |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10133 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r2__1 = 0.0 |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10134 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_HSCB_CL = 1.0              |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10135 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_hscb_cl = 1.0              |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10136 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_hscb_cl = 1.0              |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10137 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_hscb_cl = 1.0              |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10138 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_HSCB_HOLD = 1.0            |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10139 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_hscb_hold = 1.0            |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10140 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_hscb_hold = 1.0            |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10141 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_hscb_hold = 1.0            |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                         |       |
|-------|---|------------------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10142 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_LI_HSCB_OP = 0.0             |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10143 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_hscb_op = 0.0             |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10144 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_hscb_op = 0.0             |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10145 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_hscb_op = 0.0             |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10146 | I | Traction Converter Isolation TC2                                       |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10147 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc1closehscbpr1 = 0.0       |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10148 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc2closehscbpr1 = 1.0       |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10149 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm12 = 0.0      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10150 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1tbcubypassm34 = 0.0      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10151 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm12 = 0.0      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10152 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm34 = 0.0      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10153 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu1bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10154 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu2bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10155 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu3bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10156 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu4bypass = 0.0              |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10157 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm34 = 0.0      |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10158 | A | Put the Traction converter isolation switch<br>22S1 to ISOLATION M1/M2 |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10159 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm12 = 1.0      |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |

|       |   |                                                                                 |  |    |   |                                              |       |
|-------|---|---------------------------------------------------------------------------------|--|----|---|----------------------------------------------|-------|
| 10160 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu2bypass = 1.0                       |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10161 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu3bypass = 0.0                       |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10162 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu4bypass = 0.0                       |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10163 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc1closehscbr2 = 1.0                 |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10164 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc2closehscbr2 = 0.0                 |  | OK | 0 | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10165 | A | Press the button 22S11 to close HSCB                                            |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10166 | A | Both HSCBs are closed                                                           |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10167 | A | Put the Traction converter isolation switch<br>22S1 to NORMAL position          |  | OK |   | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10168 | A | Open HSCBs                                                                      |  | OK |   | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10169 | A | Press the virtual button RESET TRACTION<br>FAULTS on the DDU maintenance screen |  | OK |   | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10170 | A | Press the button 22S11 to close HSCB                                            |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10171 | A | Put the Traction converter isolation switch<br>22S1 to ISOLATION M3/M4          |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10172 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm12 = 0.0               |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10173 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm34 = 1.0               |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10174 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu1bypass = 0.0                       |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10175 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu2bypass = 0.0                       |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10176 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu3bypass = 1.0                       |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10177 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu4bypass = 0.0                       |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |

|       |   |                                                                                 |  |    |   |                                         |       |
|-------|---|---------------------------------------------------------------------------------|--|----|---|-----------------------------------------|-------|
| 10178 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc1closehscbr2 = 1.0                 |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10179 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc2closehscbr2 = 0.0                 |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10180 | A | Press the button 22S11 to close HSCB                                            |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10181 | A | Both HSCBs are closed                                                           |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10182 | A | Put the Traction converter isolation switch<br>22S1 to NORMAL position          |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10183 | A | Open HSCBs                                                                      |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10184 | A | Press the virtual button RESET TRACTION<br>FAULTS on the DDU maintenance screen |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10185 | A | Press the button 22S11 to close HSCB                                            |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10186 | A | Put the Traction converter isolation switch<br>22S1 to ISOLATION M1+M3/M2+M4    |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10187 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm12 = 1.0               |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10188 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc2tbcubypassm34 = 1.0               |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10189 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu1bypass = 0.0                       |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10190 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu2bypass = 1.0                       |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10191 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu3bypass = 1.0                       |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10192 | R | Read Defined Variable [TT]<br>(MPU1)hsc_tbcu4bypass = 0.0                       |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10193 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc1closehscbr2 = 1.0                 |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10194 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc2closehscbr2 = 0.0                 |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10195 | A | Put the Traction converter isolation switch<br>22S1 to NORMAL position          |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |

|       |   |                                                                              |  |    |  |                                              |       |
|-------|---|------------------------------------------------------------------------------|--|----|--|----------------------------------------------|-------|
| 10196 | A | Press the virtual button RESET TRACTION FAULTS on the DDU maintenance screen |  | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10197 | A | Press the button 22S11 to close HSCB                                         |  | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10198 | R | All Traction units are in service and operational                            |  | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025      | Train |
| 10199 | I | End of test                                                                  |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|



## Section 6 – Energy Distribution 400V AC

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### 6.1 Instructions list

### 6.1.1 Energy Distribution 400V AC

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                | File | Result status | Result value | Operator                                             | Vehicle |
|-------|------|----------------------------------------------------------------------------|------|---------------|--------------|------------------------------------------------------|---------|
| 10001 | I    | Auxiliary Converters Command=SPP 018                                       |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                         |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10003 | I    | TCMS should be working on train                                            |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10004 | I    | No high voltage present on catenary                                        |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10005 | I    | Start of Test                                                              |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10006 | A    | Activate the Cab on TC2                                                    |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10007 | A    | Close the battery contactor 18S1                                           |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10008 | I    | Wait for the TCMS to successfully initialize, then do the steps below      |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10009 | R    | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1battcontactclosedr1__1 = 1.0 |      | OK            | 1            | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10010 | R    | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc1batteryconnectionr1 = 1.0    |      | OK            | 1            | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10011 | R    | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2battcontactclosedr2__1 = 1.0 |      | OK            | 1            | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10012 | R    | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc2batteryconnectionr2 = 1.0    |      | OK            | 1            | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |

|       |   |                                                                                |  |    |   |                                                   |       |
|-------|---|--------------------------------------------------------------------------------|--|----|---|---------------------------------------------------|-------|
| 10013 | A | Trip the Circuit Breaker CC(ALS) on TC2 CVS AGATE compartment                  |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10014 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2battcontactclosedr1___1<br>= 0.0 |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10015 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2battcontactclosedr2___1<br>= 0.0 |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10016 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc2DcDcGateDriveR1___1<br>= 0.0     |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10017 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc2DcDcGateDriveR2___1<br>= 0.0     |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10018 | I | Wait for 30s timer in the next step prior to resetting Circuit Breaker CC(ALS) |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10019 | A | Timer 30.0 S                                                                   |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10020 | A | Reset the Circuit Breaker CC(ALS) on TC2 CVS AGATE compartment                 |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10021 | A | Trip the Circuit Breaker CC(AL) on TC2 CVS AGATE compartment                   |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10022 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc2CcAlAcuStatusR1___1<br>= 1.0     |  | OK | 1 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc2CcAlAcuStatusR2___1<br>= 1.0     |  | OK | 1 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10024 | I | Wait for 30s timer in the next step prior to resetting Circuit Breaker CC(ALS) |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10025 | A | Timer 30.0 S                                                                   |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10026 | A | Reset the Circuit Breaker CC(AL) on TC2 CVS AGATE compartment                  |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                                   |  |    |   |                                                      |       |
|-------|---|-----------------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
| 10027 | A | Activate the Cab on TC1                                                           |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10028 | A | Close the battery contactor 18S1                                                  |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10029 | I | Wait for the TCMS to successfully initialize,<br>then do the steps below          |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10030 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1battcontactclosedr1__1<br>= 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc1batteryconnectionr1 =<br>1.0        |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2battcontactclosedr2__1<br>= 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc2batteryconnectionr2 =<br>1.0        |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10034 | A | Trip the Circuit Breaker CC(ALS) on TC1 CVS<br>AGATE compartment                  |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10035 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1battcontactclosedr1__1<br>= 0.0     |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10036 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1battcontactclosedr2__1<br>= 0.0     |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10037 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc1DcDcGateDriveR1__1<br>= 0.0         |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc1DcDcGateDriveR2__1<br>= 0.0         |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10039 | I | Wait for 30s timer in the next step prior to<br>resetting Circuit Breaker CC(ALS) |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10040 | A | Timer 30.0 S                                                                      |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                                |  |    |   |                                                   |       |
|-------|---|--------------------------------------------------------------------------------|--|----|---|---------------------------------------------------|-------|
| 10041 | A | Reset the Circuit Breaker CC(ALS) on TC1 CVS AGATE compartment                 |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10042 | A | Trip the Circuit Breaker CC(AL) on TC1 CVS AGATE compartment                   |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10043 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc1CcAlAcuStatusR1___1 = 1.0        |  | OK | 1 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc1CcAlAcuStatusR2___1 = 1.0        |  | OK | 1 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10045 | I | Wait for 30s timer in the next step prior to resetting Circuit Breaker CC(ALS) |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10046 | A | Timer 30.0 S                                                                   |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10047 | A | Reset the Circuit Breaker CC(AL) on TC1 CVS AGATE compartment                  |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10048 | I | Automatic Train Preparation & Auxiliary Converter Status                       |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10049 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1automaticstartr1 = 0.0           |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10050 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2automaticstartr2 = 0.0           |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10051 | A | Force [TT]<br>(MPU1)li_cab_tc1automaticstartr1 = 1.0                           |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10052 | A | Force [TT]<br>(MPU1)li_cab_tc1automaticstartr2 = 1.0                           |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10053 | A | Timer 5.0 S                                                                    |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10054 | R | Read Defined Variable [TT]<br>(MPU1)lo_cab_tc1automaticstartr1 = 1.0           |  | OK | 1 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                                                          |                                                                                   |    |   |                                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|---|------------------------------------------------------|-------|
| 10055 | R | Read Defined Variable [TT]<br>(MPU1)lo_cab_tc2automaticstartr2 = 0.0                                     |                                                                                   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10056 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc1converterfaulttr2 = 1.0                                    |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10057 | R | Lamp 18H1 is ON                                                                                          |                                                                                   | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10058 | R | The ACU on TC1 and TC2 are not operational, the ACU appears in Grey colour on the DDU maintenance screen |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10059 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc1CcAlAcuStatusR1___1 = 0.0                                  |                                                                                   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10060 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc2CcAlAcuStatusR1___1 = 0.0                                  |                                                                                   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10061 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc1CcAlAcuStatusR2___1 = 0.0                                  |                                                                                   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10062 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc2CcAlAcuStatusR2___1 = 0.0                                  |                                                                                   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10063 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1___1 = 1.0                                 |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10064 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r2___1 = 1.0                                 |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10065 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m1pantorisedr1 = 1.0                                          |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10066 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m2pantorisedr2 = 1.0                                          |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10067 | A | Switch on 3 kV DC on the catenary                                                                        |                                                                                   | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10068 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc1closehscbr1 = 1.0                                          |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                             |                                                                                   |    |   |                                                      |       |
|-------|---|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|---|------------------------------------------------------|-------|
| 10069 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc2closehscbr1 = 1.0             |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10070 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1___1<br>= 0.0 |                                                                                   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10071 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r2___1 =<br>0.0 |                                                                                   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10072 | R | Aux with reduced performance, lamp 18H1<br>is OFF                           |                                                                                   | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10073 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc1converterfault2 = 0.0         |                                                                                   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10074 | R | Both ACUs are operational                                                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10075 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc2DcDcGateDriveR1___1<br>= 1.0  |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10076 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc2DcDcGateDriveR2___1<br>= 1.0  |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10077 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc1DcDcGateDriveR1___1<br>= 1.0  |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10078 | R | Read Defined Variable [TT]<br>(MPU1)Li_NRG_Tc1DcDcGateDriveR2___1<br>= 1.0  |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10079 | A | Release [TT]<br>(MPU1)li_cab_tc1automaticstartr1                            |                                                                                   | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10080 | A | Release [TT]<br>(MPU1)li_cab_tc1automaticstartr2                            |                                                                                   | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10081 | I | ACU Isolation and Bypass                                                    |                                                                                   | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10082 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1acubypassr1___1 = 1.0         |                                                                                   | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10083 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2acubypassr1__1 = 1.0                      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10084 | A | Put the switch 18S3(ACU ISOLATION) to<br>ISOLATION position                             |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10085 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc1converterfaultr2 = 1.0                    |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10086 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1acubypassr1__1 = 0.0                      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10087 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2acubypassr1__1 = 1.0                      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10088 | I | The help contactor closes on M2 car                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10089 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_m2converterhelpr1 = 1.0                      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10090 | R | Verify that only one ACU is operational on<br>the DDU, and the help contactor is closed |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10091 | A | Put the switch 18S3 (ACU ISOLATION) to<br>NORMAL position                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10092 | A | Press the button 22S12 to open HSCB                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10093 | R | Button lamp 22S12 is ON                                                                 |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10094 | A | Press the button 22S11 to close HSCB                                                    |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10095 | R | Button lamp 22S12 is OFF                                                                |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10096 | R | Both ACUs are operational on DDU Driver's<br>screen                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |



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| 10097 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc1converterfaultr2 = 0.0                    |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_m2converterhelpr1 = 0.0                      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10099 | A | Put the switch 18S3(ACU ISOLATION) to<br>ISOLATION position on TC2                      |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10100 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc1converterfaultr2 = 1.0                    |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10101 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1acubypassr1___1 = 1.0                     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2acubypassr1___1 = 0.0                     |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10103 | I | The help contactor closes on M2 car                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10104 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_m2converterhelpr2 = 1.0                      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10105 | R | Verify that only one ACU is operational on<br>the DDU, and the help contactor is closed |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10106 | A | Put the switch 18S3 (ACU ISOLATION) to<br>NORMAL position on TC2                        |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10107 | A | Press the button 22S12 to open HSCB                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10108 | A | Press the button 22S11 to close HSCB                                                    |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10109 | I | Both ACUs are operational on DDU screen                                                 |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10110 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_tc1converterfaultr2 = 0.0                    |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10111 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_m2converterhelpr2 = 0.0             |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10112 | R | ACU1 Airflow Read Min [TT] ACU1_AirFlow<br>: 600<= x                           |  | OK | 28180 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10113 | R | ACU2 Airflow Read Min [TT] ACU2_AirFlow<br>: 600<= x                           |  | OK | 29526 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10114 | I | ACU Fault simulation                                                           |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10115 | A | Inside the ACU, switch off the AGATE by<br>tripping ACU circuit breaker in TC1 |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10116 | A | Lamp 18H1 is ON in the alarm module                                            |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10117 | A | Timer 20.0 S                                                                   |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10118 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_m2converterhelpr1 = 1.0             |  | OK | 1     | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10119 | A | Close the ACU AGATE circuit breaker                                            |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10120 | A | Timer 30.0 S                                                                   |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10121 | A | Open HSCB                                                                      |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10122 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_m2converterhelpr1 = 0.0             |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10123 | A | Close HSCB                                                                     |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10124 | R | Lamp 18H1 is OFF in the alarm module                                           |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10125 | A | Inside the ACU, switch off the AGATE by tripping ACU circuit breaker in TC2              |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10126 | A | Lamp 18H1 is ON in the alarm module                                                      |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10127 | A | Timer 20.0 S                                                                             |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10128 | A | Close the ACU AGATE circuit breaker                                                      |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10129 | A | Timer 30.0 S                                                                             |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10130 | A | Open HSCB                                                                                |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10131 | A | Close HSCB                                                                               |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10132 | I | Verifying Aux Converter Output                                                           |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10133 | A | Put the switch 18S3 (ACU ISOLATION) to ISOLATION position on TC1 and TC2                 |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10134 | I | ACU stops working in TC1 and TC2 car                                                     |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10135 | R | Read Defined Variable [TT]<br>(MPU1)lo_nrg_m2converterhelpr1 = 0.0                       |                                                                                     | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10136 | R | Lamp 18H1 is ON in the alarm module                                                      |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10137 | I | This test is performed to verify that the ACUs can supply all the loads without tripping |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10138 | A | Open the circuit breaker 19Q2 on TC1                                                     |                                                                                     | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10139 | A | Open the circuit breaker 57Q1 for all HVAC units                      |                                                                                     | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10140 | A | Open the circuit breaker 19Q2 TC2                                     |                                                                                     | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10141 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cb400distrib = 0.0      |                                                                                     | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10142 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cb400distrib = 0.0       |                                                                                     | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10143 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cb400distrib = 0.0       |                                                                                     | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10144 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cb400distrib = 0.0       |                                                                                     | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10145 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cb400distrib = 0.0       |                                                                                     | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10146 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cb400distrib = 0.0      |                                                                                     | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10147 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1mcbcompressor = 0.0     |                                                                                     | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10148 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2mcbcompressor = 0.0     |                                                                                     | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10149 | A | Put the switch 18S3 (ACU ISOLATION) to NORMAL position on TC1 and TC2 |                                                                                     | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10150 | I | ACU starts working on TC1 and TC2                                     |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10151 | A | Close the circuit breaker 19Q2 TC1                                    |                                                                                     | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10152 | A | Close the circuit breaker 57Q1 for all HVAC units                     |                                                                                     | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10153 | I | It is necessary to check on the DDU screen for HVAC status          |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10154 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cb400distrib = 1.0    |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10155 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cb400distrib = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10156 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cb400distrib = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10157 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cb400distrib = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10158 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cb400distrib = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10159 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cb400distrib = 1.0    |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10160 | A | Close the circuit breaker 19Q2 TC2                                  |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10161 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1mcbcompressor = 1.0   |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10162 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2mcbcompressor = 1.0   |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10163 | R | Verify the circuit breaker 18Q2 ACU on TC1 and TC2 have not tripped |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10164 | A | Release [TT]<br>(MPU1)lo_cab_tc1automaticstartr1                    |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10165 | A | Release [TT]<br>(MPU1)lo_cab_tc1automaticstartr2                    |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10166 | I | Shore supply 400Vac                                                 |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10167 | I | This test is to verify if the Aux converters are able to start-up successfully under external power supply and also charge the batteries without 3kV DC from the catenary. |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10168 | I | The shore supply used should be limited to 63A at 400Vac, 50Hz, three phase. A neutral on the shore supply is mandatory.                                                   |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10169 | A | Press the button 22S12 to open the HSCB                                                                                                                                    |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10170 | A | Press switch 21S1 to lower both pantographs                                                                                                                                |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10171 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m1pantorisedr1 = 0.0                                                                                                            |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10172 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m2pantorisedr2 = 0.0                                                                                                            |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10173 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1shoresupply___1 = 0.0                                                                                                        |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10174 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2shoresupply___1 = 0.0                                                                                                        |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10175 | A | Connect the shore supply on TC1 ACU                                                                                                                                        |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10176 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1shoresupply___1 = 1.0                                                                                                        |  | OK | 1 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10177 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r2 = 0.0                                                                                                       |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10178 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2shoresupply___1 = 0.0                                                                                                        |  | OK | 0 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10179 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r1___1 = 1.0                                                                                                   |  | OK | 1 | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |
| 10180 | A | Press switch 21S1 to raise both pantographs                                                                                                                                |  | OK |   | Hlawulani Nick Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10181 | A | Close HSCB using the button 22S11                                       |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10182 | I | It is not possible to close HSCB with shore supply connected            |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10183 | R | Read Defined Variable [TT]<br>(MPU1)lo_hsc_tc1closehscbpbr1 = 0.0       |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10184 | A | Remove shore supply from TC1 ACU                                        |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10185 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1shoresupply__1 = 0.0      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10186 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r2 = 1.0    |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10187 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2shoresupply__1 = 0.0      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10188 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r1__1 = 1.0 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10189 | A | Connect the shore supply on TC2 ACU                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10190 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1shoresupply__1 = 0.0      |  | OK | 0 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10191 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r2 = 1.0    |  | OK | 1 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10192 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2shoresupply__1 = 1.0      |  | OK | 1 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10193 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r2__1 = 0.0 |  | OK | 0 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10194 | A | Close HSCB using the button 22S11                                       |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |

|       |   |                                                                                                                                                           |  |    |   |                                                      |       |
|-------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
| 10195 | I | It is not possible to close HSCB with shore supply connected                                                                                              |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10196 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1hscbclosepbr1 = 0.0                                                                                         |  | OK | 0 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10197 | A | Remove shore supply from TC2 ACU                                                                                                                          |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10198 | I | Shore Supply with 3kV present                                                                                                                             |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10199 | I | The system should be able to prevent the 400Vac contactor of the ACU from closing when 3 kV from the catenary is available and shore supply is connected. |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10200 | A | Close HSCB using the button 22S11                                                                                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10201 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_tc1hscbclosepbr1 = 1.0                                                                                         |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10202 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1__1 = 0.0                                                                                   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10203 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r1__1 = 0.0                                                                                   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10204 | A | Connect the shore supply on TC1 ACU                                                                                                                       |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10205 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1 = 0.0                                                                                      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10206 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r2__1 = 0.0                                                                                   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10207 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1shoresupply__1 = 0.0                                                                                        |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10208 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2shoresupply__1 = 0.0                                                                                        |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |



|       |   |                                                                         |  |    |   |                                                      |       |
|-------|---|-------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
| 10209 | A | Force [TT]<br>(MPU1)li_nrg_tc1shoresupply__1 = 1.0                      |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10210 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1 = 1.0    |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10211 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r2__1 = 1.0 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10212 | R | The HSCBs open                                                          |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10213 | A | Release [TT]<br>(MPU1)li_nrg_tc1shoresupply__1                          |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10214 | A | Remove shore supply from TC1 ACU                                        |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10215 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1 = 1.0    |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10216 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r1__1 = 1.0 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10217 | A | Close HSCB using the button 22S11                                       |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10218 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1__1 = 0.0 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10219 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r1__1 = 0.0 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10220 | A | Connect the shore supply on TC2 ACU                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10221 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1 = 0.0    |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10222 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r2__1 = 0.0 |  | OK | 0 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |

|       |   |                                                                          |  |    |   |                                                      |       |
|-------|---|--------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
| 10223 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1shoresupply___1 = 0.0      |  | OK | 0 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10224 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2shoresupply___1 = 0.0      |  | OK | 0 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10225 | A | Force [TT]<br>(MPU1)li_nrg_tc2shoresupply___1 = 1.0                      |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10226 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1 = 1.0     |  | OK | 1 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10227 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r2___1 = 1.0 |  | OK | 1 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10228 | R | The HSCBs open                                                           |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10229 | A | Release [TT]<br>(MPU1)li_nrg_tc2shoresupply___1                          |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025     | Train |
| 10230 | A | Remove shore supply from TC2 ACU                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10231 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1contactopen400r1 = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10232 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2contactopen400r1___1 = 1.0 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10233 | A | Close HSCB                                                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10234 | R | Both ACUs are operational                                                |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10235 | I | ACU reverse mode                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10236 | A | Open HSCB                                                                |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                                            |  |    |   |                                                      |       |
|-------|---|--------------------------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
| 10237 | R | Verify on the DDU that the HSCB is open on M1 and M2                                       |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10238 | R | Verify on the DDU that all HVACs are only operating in Ventilation mode                    |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10239 | R | Verify on the DDU that both CVS are operating in reverse mode                              |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10240 | R | Verify on the DDU that both MASU are not running                                           |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10241 | A | Switch ON the 3kV DC on the catenary                                                       |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10242 | A | Close HSCB using button 22S11                                                              |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10243 | R | Line voltage indicator shows at least 2.7kV DC                                             |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10244 | R | Verify on the DDU that the HSCB is closed on M1 and M2                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10245 | R | Verify on the DDU that all HVACs are operating under normal condition                      |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10246 | I | Automatic Train De-preparation & Auxiliary Converter status TC2                            |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10247 | A | Press the Automatic start button 20S1 on the Driver's Desk or Virtual button on DDU screen |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10248 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1automaticstartr2 = 0.0                       |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10249 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2automaticstartr1 = 0.0                       |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10250 | R | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 0.0                                     |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                                                      |  |    |   |                                                      |       |
|-------|---|------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
| 10251 | R | Read Defined Variable [TT]<br>HSC_HscbClosedNum = 0.0                                                |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10252 | R | Train is in LV ready                                                                                 |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10253 | I | Automatic train preparation and de-<br>preparation on TC2                                            |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10254 | A | Insert the Driver's master key on TC2 and<br>turn it to ON position                                  |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10255 | A | Close the battery contactor 18S1                                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10256 | A | After the TCMS successful initialization,<br>press the automatic start button 20S1                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10257 | R | Train is prepared in high voltage                                                                    |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10258 | A | Press the automatic start button 20S1 to<br>de-prepare the train                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10259 | R | Train is in LV ready                                                                                 |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10260 | A | Open the battery contactor 18S1 to shut<br>down the train                                            |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10261 | R | After few seconds, the train is successfully<br>shutdown                                             |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10262 | A | Close the battery contactor 18S1                                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10263 | A | Wait for the TCMS to successfully initialize                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10264 | A | Before the PACIS initialize, open, and HOLD<br>the battery contactor 18S1 and read the<br>following: |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                                                      |  |    |   |                                                      |       |
|-------|---|------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
| 10265 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2battoffreqr1___1 = 1.0                                 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10266 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc2battoffreqr2___1 = 1.0                                 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10267 | A | Release battery contactor 18S1                                                                       |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10268 | A | Once the PACIS has successfully initialized,<br>Open the battery contactor 18S1.                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10269 | A | Insert the Driver's master key on TC1 and<br>turn it to ON position                                  |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10270 | A | Close the battery contactor 18S1                                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10271 | A | Wait for the TCMS to successfully initialize                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10272 | R | Train is in LV ready                                                                                 |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10273 | A | Open the battery contactor 18S1 to shut<br>down the train                                            |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10274 | A | Close the battery contactor 18S1                                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10275 | A | Wait for the TCMS to successfully initialize                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10276 | A | Before the PACIS initialize, open, and HOLD<br>the battery contactor 18S1 and read the<br>following: |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10277 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1battoffreqr1___1 = 1.0                                 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10278 | R | Read Defined Variable [TT]<br>(MPU1)li_nrg_tc1battoffreqr2___1 = 1.0                                 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                                  |  |    |       |                                                      |       |
|-------|---|----------------------------------------------------------------------------------|--|----|-------|------------------------------------------------------|-------|
| 10279 | A | Release battery contactor 18S1                                                   |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10280 | A | Once the PACIS has successfully initialized,<br>Open the battery contactor 18S1. |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10281 | I | End of test                                                                      |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10282 | R | ACU2 Airflow Read Min [TT] ACU2_AirFlow<br>: 600<= x                             |  | OK | 29381 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |



Serial Tests Report  
TS312 – TFS  
RTR Train Functional Static Test Report

Document Reference  
GIB0000008899  
Version: A0

Emission date  
20/11/2025

## Section 7 – Cabin Control

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### 7.1 Instructions list



### 7.1.1 Cabin Control

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                  | File | Result status | Result value | Operator                             | Vehicle |
|-------|------|------------------------------------------------------------------------------|------|---------------|--------------|--------------------------------------|---------|
| 10001 | I    | Cabin Control SPP=020                                                        |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10002 | I    | Initial Condition                                                            |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10003 | I    | Backup switch should be in Normal Position                                   |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10004 | I    | Train should be OFF                                                          |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10005 | I    | Start Test                                                                   |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10006 | I    | Cab Active TC1                                                               |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10007 | A    | Insert Driver's Master key and turn it to ON position                        |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10008 | A    | Close the battery contactor 18S1                                             |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10009 | R    | Train successfully start up in normal mode                                   |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10010 | A    | Put the direction selector switch to FORWARD position                        |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10011 | A    | Try to put the Driver's master key in OFF position or remove it from the cab |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10012 | R    | It is not possible to remove or turn the Driver's master key                 |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10013 | A    | Put the direction selector switch to NEUTRAL position                        |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10014 | R    | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiveno = 1.0            |      | OK            | 1            | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10015 | A    | Turn key to non-active cab                                                   |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10016 | A    | Open and close circuit breaker 20Q2                                          |      | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |

|       |   |                                                                         |  |    |   |                                      |       |
|-------|---|-------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10017 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1masterkey__1 = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10018 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2masterkey__1 = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10019 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1keyrelayr2 = 1.0          |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10020 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc1KeyRelayR1 = 1.0          |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10021 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1keyrelayr2 = 1.0          |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10022 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiver1 = 1.0       |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiver2 = 0.0       |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiver3 = 1.0       |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10025 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc1CabinActiveR4 = 1.0       |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc1CabinActiveR5 = 1.0       |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc1KeyRelayR3 = 1.0          |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc1KeyRelayR4 = 1.0          |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10029 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1othercabinactive__1 = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10030 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2othercabinactive__1 = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10031 | A | Active cab on TC1                                                       |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiveno = 1.0       |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1masterkey__1 = 1.0        |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10034 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2masterkey__1 = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |

|       |   |                                                                                                                      |  |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT]<br>(MPU1)li_CAB_Tc1KeyRelayR1 = 0.0                                                       |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10036 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1keyrelayr2 = 0.0                                                       |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10037 | R | Read Defined Variable [TT]<br>(MPU1)li_CAB_Tc1KeyRelayR3 = 0.0                                                       |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)li_CAB_Tc1KeyRelayR4 = 0.0                                                       |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10039 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiver1 = 0.0                                                    |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10040 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiver2 = 1.0                                                    |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10041 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiver3 = 0.0                                                    |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10042 | R | Read Defined Variable [TT]<br>(MPU1)li_CAB_Tc1CabinActiveR4 = 0.0                                                    |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10043 | R | Read Defined Variable [TT]<br>(MPU1)li_CAB_Tc1CabinActiveR5 = 0.0                                                    |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1othercabinactive__1<br>= 1.0                                           |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10045 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2othercabinactive__1<br>= 0.0                                           |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10046 | I | Train Preparation with Automatic Start<br>button TC1                                                                 |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10047 | R | Read Defined Variable [TT]<br>(MPU1)lo_cab_tc1automaticstartr1 = 0.0                                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10048 | R | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 0.0                                                               |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10049 | R | Read Defined Variable [TT]<br>HSC_HscbClosedNum = 0.0                                                                |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10050 | A | Press the automatic start button 20S1                                                                                |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10051 | R | Button lamp 20S1 will flash during train<br>preparation and then light steady after<br>preparation process is finish |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10052 | R | Read Defined Variable [TT]<br>(MPU1)lo_cab_tc1automaticstartr1 = 1.0                                                 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |

|       |   |                                                                                        |  |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10053 | R | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 1.0                                 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10054 | R | Read Defined Variable [TT]<br>HSC_HscbClosedNum = 2.0                                  |  | OK | 2 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10055 | I | Train De-preparation with Automatic Start<br>button TC1                                |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10056 | A | Press the automatic start button 20S1                                                  |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10057 | A | Timer 5.0 S                                                                            |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10058 | R | Read Defined Variable [TT]<br>(MPU1)lo_cab_tc1automaticstart1 = 0.0                    |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10059 | R | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 0.0                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10060 | R | Read Defined Variable [TT]<br>HSC_HscbClosedNum = 0.0                                  |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10061 | A | Remove active cab on TC1                                                               |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10062 | I | Standby mode TC1                                                                       |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10063 | A | Active cab on TC1                                                                      |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10064 | A | Press the automatic start button 20S1                                                  |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10065 | A | Remove active Cab on TC1                                                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10066 | A | Manually isolate EB on M4 using the<br>pneumatic cock C2.3/1                           |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10067 | A | Press the standby mode button 20S2 and<br>maintain it                                  |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10068 | A | Manually isolate EB on TC1 using the<br>pneumatic cock C1.3/1                          |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10069 | R | The pantograph lower and both HSCB<br>open, then the train shuts down<br>automatically |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10070 | A | Normalize the cock on M4                                                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                              |  |    |   |                                      |       |
|-------|---|------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10071 | A | Normalize the cock on TC1                                                    |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10072 | A | Cab Active TC2                                                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10073 | A | Insert Driver's Master Key and turn it to ON position                        |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10074 | A | Put the direction selector switch to FORWARD position                        |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10075 | A | Try to put the Driver's master key in OFF position or remove it from the cab |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10076 | R | It is not possible to remove or turn the Driver's master key                 |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10077 | A | Put the direction selector switch to NEUTRAL position                        |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10078 | A | Turn key to non-active cab                                                   |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10079 | A | Open and close the circuit breaker 20Q2                                      |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10080 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2cabinactiveno = 0.0            |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10081 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1masterkey__1 = 0.0             |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10082 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2masterkey__1 = 0.0             |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10083 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2keyrelayr2__1 = 1.0            |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10084 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2keyrelayr1__1 = 1.0            |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10085 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2KeyRelayR4 = 1.0               |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10086 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2keyrelayr3 = 1.0               |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10087 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR1 = 1.0            |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10088 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR2 = 0.0            |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |

|       |   |                                                                            |  |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10089 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR3 = 1.0          |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10090 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR4 = 1.0          |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10091 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR5 = 1.0          |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10092 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1othercabinactive__1<br>= 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2othercabinactive__1<br>= 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1othercabinactive__1<br>= 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10095 | A | Active cab on TC2                                                          |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10096 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1masterkey__1 = 0.0           |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10097 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2masterkey__1 = 1.0           |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2keyrelayr1__1 = 0.0          |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10099 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2keyrelayr3 = 0.0             |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10100 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2keyrelayr2__1 = 0.0          |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10101 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2KeyRelayR4 = 0.0             |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR1 = 0.0          |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10103 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR2 = 1.0          |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10104 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR3 = 0.0          |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10105 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR4 = 0.0          |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT]<br>(MPU1)Li_CAB_Tc2CabinActiveR5 = 0.0          |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |

|       |   |                                                                                                                      |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------|----|---|--------------------------------------|-------|
| 10107 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2cabinactiveno = 1.0                                                    | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10108 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc10thercabinactive___1<br>= 0.0                                          | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10109 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc20thercabinactive___1<br>= 1.0                                          | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10110 | I | Train Preparation with Automatic Start<br>button TC2                                                                 | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10111 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2automaticstartr1 = 0.0                                                 | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10112 | R | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 0.0                                                               | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10113 | R | Read Defined Variable [TT]<br>HSC_HscbClosedNum = 0.0                                                                | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10114 | A | Press the automatic start button 20S1                                                                                | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10115 | R | Button lamp 20S1 will flash during train<br>preparation and then light steady after<br>preparation process is finish | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10116 | R | Read Defined Variable [TT]<br>(MPU1)lo_cab_tc2automaticstartr1 = 1.0                                                 | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10117 | R | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 1.0                                                               | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10118 | R | Read Defined Variable [TT]<br>HSC_HscbClosedNum = 2.0                                                                | OK | 2 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10119 | I | Train De-preparation with Automatic Start<br>button TC2                                                              | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10120 | A | Press the automatic start button 20S1                                                                                | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10121 | R | Read Defined Variable [TT]<br>(MPU1)lo_cab_tc2automaticstartr1 = 0.0                                                 | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10122 | R | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 0.0                                                               | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10123 | R | Read Defined Variable [TT]<br>HSC_HscbClosedNum = 0.0                                                                | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10124 | I | Double Cabin and cabin change                                                                                        | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |

|       |   |                                                                                                   |  |    |   |                                      |       |
|-------|---|---------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10125 | I | Each cabin must have its own Driver's Master key                                                  |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10126 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiveno = 0.0                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10127 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2cabinactiveno = 1.0                                 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10128 | A | Remove active cab on TC2                                                                          |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10129 | A | Open and close the circuit breaker 20Q2                                                           |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10130 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2cabinactiveno = 0.0                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10131 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiveno = 0.0                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10132 | A | Activate the cab on TC2                                                                           |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10133 | A | Active cab on TC1                                                                                 |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10134 | R | IOS 064 appears on the Driver's event list to notify the driver a second key has been inserted    |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10135 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiveno = 0.0                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10136 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2cabinactiveno = 1.0                                 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10137 | A | Remove active cab on TC2                                                                          |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10138 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2cabinactiveno = 0.0                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10139 | R | IOS 064 disappears on the Driver's event list to notify the driver a second key has been inserted |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10140 | A | Remove active cab from TC1                                                                        |  | OK |   | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10141 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc1cabinactiveno = 1.0                                 |  | OK | 1 | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10142 | R | Read Defined Variable [TT]<br>(MPU1)li_cab_tc2cabinactiveno = 0.0                                 |  | OK | 0 | TIVANI Angel<br>542257<br>17.11.2025 | Train |



|       |   |                                                                                        |  |    |  |                                      |       |
|-------|---|----------------------------------------------------------------------------------------|--|----|--|--------------------------------------|-------|
| 10143 | I | Standby mode TC2                                                                       |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10144 | A | Active cab on TC2                                                                      |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10145 | A | Press the automatic start button 20S1                                                  |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10146 | A | Remove active Cab on TC2                                                               |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10147 | A | Manually isolate EB on M3 using the<br>pneumatic cock C2.3/1                           |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10148 | A | Press the standby mode button 20S2 and<br>maintain it                                  |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10149 | A | Manually isolate EB on TC2 using the<br>pneumatic cock C1.3/1                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10150 | R | The pantograph lower and both HSCB<br>open, then the train shuts down<br>automatically |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10151 | A | Normalize the cock on M3                                                               |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10152 | A | Normalize the cock on TC2                                                              |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10153 | I | End of Test                                                                            |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 8 – Internal Lighting

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### 8.1 Instructions list

### 8.1.1 Internal Lighting

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                        | File | Result status | Result value | Operator                                  | Vehicle |
|-------|------|----------------------------------------------------------------------------------------------------|------|---------------|--------------|-------------------------------------------|---------|
| 10001 | I    | Internal Lighting = SPP 052                                                                        |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                                 |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10003 | I    | Train should be off                                                                                |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10004 | I    | Main lighting                                                                                      |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10005 | A    | Press the automatic start button 20S1 to prepare the train in High voltage                         |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10006 | I    | Main lighting is 100% brightness                                                                   |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10007 | R    | Main lighting is (ON) on TC1, verify the left and right LEDs are ON in each row in 100% brightness |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10008 | R    | Main lighting is (ON) on M4, verify the left and right LEDs are ON in each row in 100% brightness. |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10009 | R    | Main lighting is (ON) on M1, verify the left and right LEDs are ON in each row in 100% brightness  |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10010 | R    | Main lighting is (ON) on M2, verify the left and right LEDs are ON in each row in 100% brightness  |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10011 | R    | Main lighting is (ON) on M3, verify the left and right LEDs are ON in each row in 100% brightness  |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10012 | R    | Main lighting is (ON) on TC2, verify the left and right LEDs are ON in each row in 100% brightness |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10013 | A    | Force [TT] (MPU1)lo_lgt_tc1mainlgtcmd = 0.0                                                        |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10014 | A    | Force [TT] (MPU1)lo_lgt_tc2mainlgtcmd = 0.0                                                        |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10015 | R    | Emergency lighting is (ON) on TC2, brightness has been reduced to low                              |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10016 | R    | Emergency lighting is (ON) on M3, brightness has been reduced to low                               |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |

|       |   |                                                                       |  |    |  |                                           |       |
|-------|---|-----------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10017 | R | Emergency lighting is (ON) on M2, brightness has been reduced to low  |  | OK |  | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10018 | R | Emergency lighting is (ON) on M1, brightness has been reduced to low  |  | OK |  | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10019 | R | Emergency lighting is (ON) on M4, brightness has been reduced to low  |  | OK |  | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10020 | R | Emergency lighting is (ON) on TC1, brightness has been reduced to low |  | OK |  | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10021 | A | Release [TT]<br>(MPU1)lo_lgt_tc1mainlgtcmd                            |  | OK |  | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10022 | A | Release [TT]<br>(MPU1)lo_lgt_tc2mainlgtcmd                            |  | OK |  | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10023 | I | End of Test                                                           |  | OK |  | Sizwe Sibanyoni<br>484647<br>20.11.2025   | Train |



|                                                                               |                                                    |                             |
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## Section 9 – Pantograph

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### 9.1 Instructions list

### 9.1.1 Pantograph

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                            | File | Result status | Result value | Operator                                  | Vehicle |
|-------|------|----------------------------------------------------------------------------------------|------|---------------|--------------|-------------------------------------------|---------|
| 10001 | I    | Pantograph = SPP 021                                                                   |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                     |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10003 | I    | Main pipe should be 10bar                                                              |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10004 | I    | HSCB is open on M1 and M2 and both pantographs are low                                 |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10005 | I    | Auxiliary Compressor test must be completed in car level prior to performing this test |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10006 | I    | Mechanical pantograph test must be completed prior to performing this test             |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10007 | I    | EARTHING SWITCH T1 is in NORMAL Position on M1                                         |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10008 | I    | EARTHING SWITCH T1 is in NORMAL Position on M2                                         |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10009 | I    | HVB1 valve is in NORMAL position on M1                                                 |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10010 | I    | HVB1 valve is in NORMAL position on M2                                                 |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10011 | I    | Start of Test                                                                          |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10012 | A    | Active Cab on TC1                                                                      |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10013 | I    | Main Tank pressure switch                                                              |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10014 | I    | Make sure the HSCB is open                                                             |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10015 | A    | Empty the main pipe using the cock F2.1/1                                              |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |
| 10016 | A    | Connect a manometer on valve K2.8 in M1 and measure the pressure                       |      | OK            |              | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train   |



|       |   |                                                                                                                                 |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10017 | A | Drain the air in the auxiliary compressor pipe using the valve K2.5 in M1                                                       |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10018 | I | The sensor of the pantograph reservoir should switch when the pressure reaches 5.5 bar(+/- 10%)                                 |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10019 | A | Normalize the valve K2.5 and wait                                                                                               |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10020 | R | The auxiliary compressor stops when the pressure reaches 7 bar on K2.8                                                          |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025  | Train |
| 10021 | A | Connect a manometer on valve K2.8 in M2 and measure the pressure                                                                |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10022 | A | Drain the air in the auxiliary compressor pipe using the valve K2.5 in M2 car                                                   |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10023 | I | The sensor of the pantograph reservoir should switch when the pressure reaches 5.5 bar(+/- 10%)                                 |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10024 | A | Normalize the valve K2.5 and wait                                                                                               |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10025 | R | The auxiliary compressor stops when the pressure reaches 7 bar on K2.8                                                          |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10026 | A | Normalize the main pipe                                                                                                         |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10027 | A | Close the HSCB                                                                                                                  |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10028 | A | Remove the manometer                                                                                                            |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10029 | A | Insert the nozzle of the manometer on M2 without the manometer connected, to drain the air when the auxiliary compressor starts |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10030 | A | Close the circuit breaker 21Q1 in M2                                                                                            |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10031 | R | Auxiliary compressor starts working                                                                                             |  | OK |   | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)lo_pnt_m1startauxiliarcompr1 = 0.0                                                          |  | OK | 0 | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>(MPU1)lo_pnt_m1startauxiliarcompr2 = 0.0                                                          |  | OK | 0 | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |
| 10034 | R | Read Defined Variable [TT]<br>(MPU1)lo_pnt_m2startauxiliarcompr1 = 1.0                                                          |  | OK | 1 | Siphehile Mchunu<br>491465<br>17.11.2025 | Train |

|       |   |                                                                           |  |    |   |                                           |       |
|-------|---|---------------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT]<br>(MPU1)lo_pnt_m2startauxiliarcompr2 =<br>1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10036 | A | Remove the manometer nozzle on M2                                         |  | OK |   | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10037 | A | Put HVB1 valve in NORMAL position on<br>M2                                |  | OK |   | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10038 | A | Put the earthing switch in NORMAL<br>position on M2                       |  | OK |   | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10039 | A | Put HVB1 valve in NORMAL position on<br>M1                                |  | OK |   | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10040 | A | Put the earthing switch in NORMAL<br>position on M1                       |  | OK |   | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |
| 10041 | I | End of Test                                                               |  | OK |   | Siphesihle Mchunu<br>491465<br>17.11.2025 | Train |



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## Section 10 – Air Production

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### 10.1 Instructions list

### 10.1.1 Air Production

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                      | File | Result status | Result value | Operator                             | Vehicle |
|-------|------|----------------------------------------------------------------------------------|------|---------------|--------------|--------------------------------------|---------|
| 10001 | I    | Air Production = SPP 019                                                         |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                               |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10003 | A    | Put the train in LV ready (No High Voltage/No Shore Supply) on TC1 as active cab |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10004 | A    | Drain the air on TC1 main pipe using the cock F2.1/1                             |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10005 | R    | The pressure gauge of the main pipe is 0 bar                                     |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10006 | A    | Normalise the cock                                                               |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10007 | I    | Start of Test                                                                    |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10008 | R    | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyrunning = 0.0               |      | OK            | 0            | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10009 | R    | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplydelay = 0.0                 |      | OK            | 0            | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10010 | A    | Open circuit breaker 19Q3 on TC1                                                 |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10011 | R    | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyok = 0.0                    |      | OK            | 0            | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10012 | A    | Close circuit breaker 19Q3                                                       |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10013 | R    | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyok = 1.0                    |      | OK            | 1            | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10014 | A    | Open circuit breaker 19Q3 on TC2                                                 |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10015 | R    | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyok = 0.0                    |      | OK            | 0            | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10016 | A    | Close circuit breaker 19Q3 on TC2                                                |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |

|       |   |                                                                                                      |    |   |                                      |       |
|-------|---|------------------------------------------------------------------------------------------------------|----|---|--------------------------------------|-------|
| 10017 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyok = 1.0                                        | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10018 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplydelay = 0.0                                     | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10019 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyrunning = 0.0                                   | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10020 | I | Main Compressor operation                                                                            | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10021 | A | Press the automatic start button 20S1                                                                | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10022 | I | Both main air compressors start up                                                                   | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc1compenabler1 = 1.0                                     | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc1compenabler2 = 1.0                                     | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10025 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc2compenabler1 = 1.0                                     | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc2compenabler2 = 1.0                                     | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyrunning = 1.0                                   | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyrunning = 1.0                                   | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10029 | I | It is necessary to check main pipe pressure<br>on the pneumatic gauge of TC1 and TC2<br>individually | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10030 | A | Wait for 10 minutes, then read the<br>variables below                                                | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc1compenabler1 = 0.0                                     | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc1compenabler2 = 0.0                                     | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc2compenabler1 = 0.0                                     | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10034 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc2compenabler2 = 0.0                                     | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |

|       |   |                                                                                                               |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyrunning = 0.0                                            |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10036 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyrunning = 0.0                                            |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10037 | A | Force [TT] NET_TrainTimeEvenDay = 1.0                                                                         |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10038 | A | Drain the air in the main pipe from TC1<br>side using cock F2.1/1 until the pressure<br>reaches below 8.5 bar |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10039 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc1compenabler2 = 1.0                                              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10040 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc2compenabler1 = 0.0                                              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10041 | A | Normalise the cock F2.1/1 and let the<br>compressor runs until it stops                                       |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10042 | A | Force [TT] NET_TrainTimeEvenDay = 0.0                                                                         |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10043 | A | Drain the air in the main pipe from TC1<br>side using cock F2.1/1 until the pressure<br>reaches below 8.5 bar |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc1compenabler1 = 0.0                                              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10045 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc2compenabler2 = 1.0                                              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10046 | I | Compressor Manual Isolation TC1                                                                               |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10047 | A | Normalise the cock F2.1/1 and let the<br>compressor runs until it stops                                       |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10048 | A | Put the pneumatic switch 19S1 to<br>ISOLATION position                                                        |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10049 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1condemnedr1 = 1.0                                               |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10050 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1condemnedr2 = 1.0                                               |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10051 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyok = 1.0                                                 |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10052 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplydelay = 0.0                                              |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |

|       |   |                                                                                                                                                                     |                                                                                     |    |        |                                              |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--------|----------------------------------------------|-------|
| 10053 | A | Put the pneumatic switch 19S1 to NORMAL position                                                                                                                    |                                                                                     | OK |        | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10054 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1condemnedr1 = 0.0                                                                                                     |                                                                                     | OK | 0      | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10055 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1condemnedr2 = 0.0                                                                                                     |                                                                                     | OK | 0      | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10056 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplydelay = 0.0                                                                                                    |                                                                                     | OK | 0      | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10057 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyok = 1.0                                                                                                       |                                                                                     | OK | 1      | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10058 | R |                                                                                                                                                                     |                                                                                     | OK | 982.55 | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10059 | I | Compressor stops when it reaches 10 bar                                                                                                                             |                                                                                     | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10060 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyok = 1.0                                                                                                       |                                                                                     | OK | 1      | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10061 | R | Verify that the pressure gauge indicates the correct pressure values, according to the DDU<br>BC: Brake cylinder(yellow indicator)<br>MRP: Main Pipe(Red indicator) |  | OK |        | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10062 | I | Compressor Remote Isolation TC1                                                                                                                                     |                                                                                     | OK |        | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10063 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplydelay = 0.0                                                                                                    |                                                                                     | OK | 0      | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10064 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1mcbcompressor = 1.0                                                                                                   |                                                                                     | OK | 1      | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10065 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1remotecb = 1.0                                                                                                        |                                                                                     | OK | 1      | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10066 | I | It is important to make sure the main pipe pressure is always below 10 bar for the purpose of this test                                                             |                                                                                     | OK |        | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10067 | A | Release the air in the main pipe until it reaches below 8.5 bar                                                                                                     |                                                                                     | OK |        | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10068 | A | Open circuit breaker 19Q3                                                                                                                                           |                                                                                     | OK |        | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10069 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyrunning = 1.0                                                                                                  |                                                                                     | OK | 1      | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10070 | A | Press the button 19S2 and hold                                                                                                                                      |                                                                                     | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |



|       |   |                                                                    |  |    |   |                                          |       |
|-------|---|--------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10071 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1remotecb = 0.0       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10072 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1mcbcompressor = 1.0  |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10073 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyrunning = 1.0 |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10074 | A | Release the button 19S2                                            |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10075 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1mcbcompressor = 1.0  |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10076 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1remotecb = 1.0       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10077 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyrunning = 1.0 |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10078 | A | Open circuit breaker 19Q2 in the LVB                               |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10079 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1mcbcompressor = 0.0  |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10080 | A | Press and hold the button 19S2                                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10081 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1remotecb = 0.0       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10082 | A | Release the button 19S2                                            |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10083 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc1remotecb = 0.0       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10084 | A | Close circuit breaker 19Q3                                         |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10085 | A | Press 19S2 and RELEASE in less than a second                       |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10086 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1remotecb = 1.0       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10087 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc1mcbcompressor = 1.0  |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10088 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu1airsupplyrunning = 1.0 |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |

|       |   |                                                                    |  |    |       |                                              |       |
|-------|---|--------------------------------------------------------------------|--|----|-------|----------------------------------------------|-------|
| 10089 | I | Compressor Manual Isolation TC2                                    |  | OK |       | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10090 | A | Put the pneumatic switch 19S1 to ISOLATION position                |  | OK |       | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10091 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2condemnedr1 = 1.0    |  | OK | 1     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10092 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2condemnedr2 = 1.0    |  | OK | 1     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyrunning = 0.0 |  | OK | 0     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10094 | A | Force [TT]<br>(MPU1)lo_air_tc2compenabler2 = 1.0                   |  | OK |       | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10095 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyrunning = 0.0 |  | OK | 0     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10096 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyok = 1.0      |  | OK | 1     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10097 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplydelay = 0.0   |  | OK | 0     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10098 | A | Put the pneumatic switch 19S1 to NORMAL position                   |  | OK |       | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10099 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2condemnedr1 = 0.0    |  | OK | 0     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10100 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2condemnedr2 = 0.0    |  | OK | 0     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10101 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyrunning = 1.0 |  | OK | 1     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplydelay = 0.0   |  | OK | 0     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10103 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyok = 1.0      |  | OK | 1     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |
| 10104 | I | Compressor stops when it reaches 10 bar                            |  | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10105 | R |                                                                    |  | OK | 986.5 | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyrunning = 0.0 |  | OK | 0     | Sinazo Mkhwa<br>529940<br>17.11.2025         | Train |

|       |   |                                                                                                         |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10107 | A | Remove active cab on TC1                                                                                |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10108 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyok = 1.0                                           |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10109 | A | Active cab on TC2                                                                                       |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10110 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplydelay = 0.0                                        |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10111 | I | Compressor Remote Isolation TC2                                                                         |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10112 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2mcbcompressor = 1.0                                       |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10113 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2remotecb = 1.0                                            |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10114 | I | It is important to make sure the main pipe pressure is always below 10 bar for the purpose of this test |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10115 | A | Release the air in the main pipe until it reaches below 8.5 bar                                         |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10116 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyrunning = 1.0                                      |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10117 | A | Open circuit breaker 19Q3                                                                               |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10118 | A | Press and hold the button 19S2                                                                          |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10119 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2remotecb = 0.0                                            |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10120 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2mcbcompressor = 1.0                                       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10121 | A | Release the button 19S2                                                                                 |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10122 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2mcbcompressor = 1.0                                       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10123 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2remotecb = 1.0                                            |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10124 | A | Open circuit breaker 19Q2 in LVB                                                                        |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                                                                                             |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10125 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2mcbcompressor = 0.0                                                                           |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10126 | A | Press and hold the button 19S2                                                                                                              |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10127 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2remotecb = 0.0                                                                                |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10128 | A | Release the button 19S2                                                                                                                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10129 | A | Close circuit breaker 19Q3                                                                                                                  |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10130 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc2remotecb = 0.0                                                                                |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10131 | A | Press 19S2 and RELEASE in less than a second                                                                                                |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10132 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2mcbcompressor = 1.0                                                                           |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10133 | R | Read Defined Variable [TT]<br>(MPU1)air_bcu2airsupplyrunning = 1.0                                                                          |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10134 | R | Read Defined Variable [TT]<br>(MPU1)li_air_tc2remotecb = 1.0                                                                                |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025     | Train |
| 10135 | I | Air tightness of Main pipe and other pneumatic systems on train                                                                             |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10136 | A | Force [TT]<br>(MPU1)lo_air_tc1compenabler1 = 0.0                                                                                            |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10137 | A | Force [TT]<br>(MPU1)lo_air_tc2compenabler1 = 0.0                                                                                            |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10138 | A | Empty the main pipe pressure using draining cock A5/1 until it reaches below 7.5 bar                                                        |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10139 | I | Put both compressors in service by closing circuit breaker 19Q2 and also ensure isolation switch 19S1 is in NORMAL position on both TC cars |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10140 | A | Release [TT]<br>(MPU1)lo_air_tc1compenabler1                                                                                                |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10141 | A | Release [TT]<br>(MPU1)lo_air_tc2compenabler1                                                                                                |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10142 | I | Only one compressor starts when the pressure reaches below 8.5 bar. At 10bar +/- 0.2 bar the compressor stops.                              |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                                                                                                                                                      |  |    |        |                                              |       |
|-------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--------|----------------------------------------------|-------|
| 10143 | I | After 10 minutes, the air in the main pipe should not be less than 9.3 bar                                                                                                                           |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10144 | R | Read Undefined Variable [TT]<br>(MPU1)air_bcu1mrpres                                                                                                                                                 |  | OK | 886.16 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10145 | I | Air tightness of main reservoirs and associated devices combined with other pneumatic equipment's                                                                                                    |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10146 | A | Isolate the Service and Emergency Brake circuit of each car by turning the isolation cocks C1.3/1 and C.2.3/1 towards the isolation position                                                         |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10147 | A | Reset the air in the main pipe to 10 bar+/- 0.2 bar                                                                                                                                                  |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10148 | I | If necessary drain the air in the main pipe until at least one compressor starts to reset the pressure to 10 bar                                                                                     |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10149 | R | Measure the pressure of the main pipe on A1.12 test point and verify that the pressure does not fall by more than 75 kPa (0.75 bar) after 10 minutes, from an initial pressure of 1000 kPa (10 bar). |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10150 | R |                                                                                                                                                                                                      |  | OK | 10     | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10151 | A | NORMALISE the isolation cocks C1.3/1 and C2.3/1                                                                                                                                                      |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10152 | I | Air tightness of brake cylinders and auxiliary reservoirs                                                                                                                                            |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10153 | R | The pressure on the pneumatic indicator is 10 bar +/-0.2 bar                                                                                                                                         |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10154 | A | Select driving direction to FORWARD position                                                                                                                                                         |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10155 | A | Put Master Controller in 100% Service brake position                                                                                                                                                 |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10156 | A | Using the manometer, check the SB values in each brake panel, in each car the pressure should not decrease more than 20kPa in over 12 minutes                                                        |  | OK |        | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10157 | R | SB TC1Result Min/Max : 118<= x <= 158 (kPa)                                                                                                                                                          |  | OK | 140.7  | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10158 | R | SB M4Result Min/Max : 133<= x <= 173 (kPa)                                                                                                                                                           |  | OK | 137.6  | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10159 | R | SB M1Result Min/Max : 137<= x <= 177 (kPa)                                                                                                                                                           |  | OK | 142.5  | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |

|       |   |                                                                                                                                                                     |                                                                                   |    |       |                                              |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-------|----------------------------------------------|-------|
| 10160 | R | SB M2Result Min/Max : 137<= x <= 176 (kPa)                                                                                                                          |                                                                                   | OK | 164.7 | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10161 | R | SB M3Result Min/Max : 133<= x <= 173 (kPa)                                                                                                                          |                                                                                   | OK | 167.7 | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10162 | R | SB TC2Result Min/Max : 118<= x <= 158 (kPa)                                                                                                                         |                                                                                   | OK | 140.1 | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10163 | R | Verify that the pressure gauge indicates the correct pressure values, according to the DDU<br>BC: Brake cylinder(yellow indicator)<br>MRP: Main Pipe(Red indicator) |  | OK |       | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10164 | I | Draining Cock for Inter-car                                                                                                                                         |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10165 | I | Air in the main pipe should be 10 bar +/- 0.2 bar                                                                                                                   |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10166 | A | This test is to ensure that the draining cocks are fully functional                                                                                                 |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10167 | A | Isolate all the cocks from M3 to M4                                                                                                                                 |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10168 | A | Drain the air on TC1 car using the cock F2.1/1                                                                                                                      |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10169 | A | Drain the air on M4 car using the cock F2.1/1                                                                                                                       |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10170 | A | Drain the air on M1 car using the cock F2.1/1                                                                                                                       |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10171 | A | Drain the air on M2 car using the cock F2.1/1                                                                                                                       |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10172 | A | Drain the air on M3 car using the cock F2.1/1                                                                                                                       |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10173 | A | Drain the air on TC2 car using the cock F2.1/1                                                                                                                      |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10174 | A | Normalise all the cocks                                                                                                                                             |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10175 | A | Use the tool on the top right corner to add the manometer used for this test (serial number)                                                                        |                                                                                   | OK |       | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10176 | I | End of Test                                                                                                                                                         |                                                                                   | OK |       | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 11 – Monitoring Circuit Breakers

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### 11.1 Instructions list



### 11.1.1 Monitoring Circuit Breakers

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                      | File | Result status | Result value | Operator                                 | Vehicle |
|-------|------|------------------------------------------------------------------|------|---------------|--------------|------------------------------------------|---------|
| 10001 | I    | Monitoring Circuit Breakers SPP=080                              |      | OK            |              | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10002 | I    | TC1                                                              |      | OK            |              | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10003 | A    | Open the circuit breaker 15Q4                                    |      | OK            |              | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10004 | R    | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cb110distrib = 0.0 |      | OK            | 0            | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10005 | A    | Close the circuit breaker 15Q4                                   |      | OK            |              | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10006 | R    | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cb110distrib = 1.0 |      | OK            | 1            | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10007 | A    | Open the circuit breaker 13Q1                                    |      | OK            |              | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10008 | R    | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cb230distrib = 0.0 |      | OK            | 0            | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10009 | A    | Close the circuit breaker 13Q1                                   |      | OK            |              | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10010 | R    | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cb230distrib = 1.0 |      | OK            | 1            | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10011 | A    | Open the circuit breaker 57Q1                                    |      | OK            |              | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10012 | R    | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cb400distrib = 0.0 |      | OK            | 0            | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10013 | A    | Close the circuit breaker 57Q1                                   |      | OK            |              | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10014 | R    | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cb400distrib = 1.0 |      | OK            | 1            | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10015 | A    | Open the circuit breaker 72Q1                                    |      | OK            |              | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |
| 10016 | R    | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbauxfct = 0.0     |      | OK            | 0            | Siphehile Mchunu<br>491465<br>19.11.2025 | Train   |

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|-------|---|-------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10017 | A | Close the circuit breaker 72Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10018 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbauxfct = 1.0      |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10019 | A | Open the circuit breaker 40Q4                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10020 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbbrake = 0.0       |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10021 | A | Close the circuit breaker 40Q4                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10022 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbbrake = 1.0       |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10023 | A | Open the circuit breaker 50Q7                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbdoors = 0.0       |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10025 | A | Close the circuit breaker 50Q7                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbdoors = 1.0       |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10027 | A | Open the circuit breaker 22Q1                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbenergy = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10029 | A | Close the circuit breaker 22Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10030 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbenergy = 1.0      |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10031 | A | Open the circuit breaker 44Q1                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbsafetyfctr1 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbsafetyfctr2 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10034 | A | Close the circuit breaker 44Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

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|-------|---|-------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbsafetyfctr1 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10036 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbsafetyfctr2 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10037 | A | Open the circuit breaker 72Q2                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbsockets = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10039 | A | Close the circuit breaker 72Q2                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10040 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbsockets = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10041 | A | Open the circuit breaker 25Q11                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10042 | R | Read Defined Variable [TT]<br>(MPU2)Li_DDK_Tc1CbTcms1R2 = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10043 | A | Close the circuit breaker 25Q11                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10044 | A | Open the circuit breaker 25Q13                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10045 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbtcms1r1 = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10046 | A | Close the circuit breaker 25Q13                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10047 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbtcms1r1 = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10048 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbtcms1r2 = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10049 | A | Open the circuit breaker 25Q10                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10050 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbtcms2r1 = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10051 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbtcms2r2 = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10052 | A | Close the circuit breaker 25Q10                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

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|-------|---|--------------------------------------------------------------------|----|---|-------------------------------------------|-------|
| 10053 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbtcms2r1 = 1.0      | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10054 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbtcms2r2 = 1.0      | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10055 | A | Open the circuit breaker 75Q1                                      | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10056 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbdrivingfctr1 = 0.0 | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10057 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbdrivingfctr2 = 0.0 | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10058 | A | Close the circuit breaker 75Q1                                     | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10059 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbdrivingfctr1 = 1.0 | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10060 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc1cbdrivingfctr2 = 1.0 | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10061 | I | M4                                                                 | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10062 | A | Open the circuit breaker 15Q4                                      | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10063 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cb110distrib = 0.0    | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10064 | A | Close the circuit breaker 15Q4                                     | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10065 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cb110distrib = 1.0    | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10066 | A | Open the circuit breaker 13Q1                                      | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10067 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cb230distrib = 0.0    | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10068 | A | Close the circuit breaker 13Q1                                     | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10069 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cb230distrib = 1.0    | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10070 | A | Open the circuit breaker 57Q1                                      | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

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|-------|---|-----------------------------------------------------------------|----|---|------------------------------------------|-------|
| 10071 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cb400distrib = 0.0 | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10072 | A | Close the circuit breaker 57Q1                                  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10073 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cb400distrib = 1.0 | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10074 | A | Open the circuit breaker 40Q1                                   | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10075 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbbrake = 0.0      | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10076 | A | Close the circuit breaker 40Q1                                  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10077 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbbrake = 1.0      | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10078 | A | Open the circuit breaker 50Q4                                   | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10079 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbdoors = 0.0      | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10080 | A | Close the circuit breaker 50Q4                                  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10081 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbdoors = 1.0      | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10082 | A | Open the circuit breaker 57Q2                                   | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10083 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbhvac = 0.0       | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10084 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbhvac = 0.0       | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10085 | A | Close the circuit breaker 57Q2                                  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10086 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbhvac = 1.0       | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10087 | A | Open the circuit breaker 52Q4                                   | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10088 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cblighting = 0.0   | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                  |  |    |   |                                           |       |
|-------|---|------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10089 | A | Close the circuit breaker 52Q4                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10090 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cblighting = 1.0    |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10091 | A | Open the circuit breaker 54Q10                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10092 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbpacs = 0.0        |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10093 | A | Close the circuit breaker 54Q10                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbpacs = 1.0        |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10095 | A | Open the circuit breaker 44Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10096 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbsafetyfctr1 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10097 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbsafetyfctr2 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10098 | A | Close the circuit breaker 44Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10099 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbsafetyfctr1 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10100 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbsafetyfctr2 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10101 | A | Open the circuit breaker 13Q2                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbsockets = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10103 | A | Close the circuit breaker 13Q2                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10104 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbsockets = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10105 | A | Open the circuit breaker 25Q6                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtms1r1 = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

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|-------|---|----------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10107 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtcms1r2 = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10108 | A | Close the circuit breaker 25Q6                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10109 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtcms1r1 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10110 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtcms1r2 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10111 | A | Open the circuit breaker 25Q10                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10112 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtcms2r1 = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10113 | A | Close the circuit breaker 25Q10                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10114 | A | Open the circuit breaker 25Q14                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10115 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtcms2r2 = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10116 | A | Close the circuit breaker 25Q14                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10117 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtcms2r1 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10118 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtcms2r2 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10119 | A | Open the circuit breaker 33Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10120 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtraction = 0.0  |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10121 | A | Close the circuit breaker 33Q1                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10122 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbtraction = 1.0  |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10123 | A | Open the circuit breaker 55Q2                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10124 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbvideoinfo = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

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|-------|---|-----------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10125 | A | Close the circuit breaker 55Q2                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10126 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m4cbvideoinfo = 1.0  |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10127 | I | M1                                                              |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10128 | A | Open the circuit breaker 15Q4                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10129 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cb110distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10130 | A | Close the circuit breaker 15Q4                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10131 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cb110distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10132 | A | Open the circuit breaker 13Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10133 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cb230distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10134 | A | Close the circuit breaker 13Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10135 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cb230distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10136 | A | Open the circuit breaker 57Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10137 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cb400distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10138 | A | Close the circuit breaker 57Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10139 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cb400distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10140 | A | Open the circuit breaker 40Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10141 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbbrake = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10142 | A | Close the circuit breaker 40Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |



|       |   |                                                               |  |    |   |                                           |       |
|-------|---|---------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10143 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbbrake = 1.0    |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10144 | A | Open the circuit breaker 50Q4                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10145 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbdoors = 0.0    |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10146 | A | Close the circuit breaker 50Q4                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10147 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbdoors = 1.0    |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10148 | A | Open the circuit breaker 21Q2                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10149 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbenergy = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10150 | A | Close the circuit breaker 21Q2                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10151 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbenergy = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10152 | A | Open the circuit breaker 57Q2                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10153 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbhvac = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10154 | A | Close the circuit breaker 57Q2                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10155 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbhvac = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10156 | A | Open the circuit breaker 52Q4                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10157 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cblighting = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10158 | A | Close the circuit breaker 52Q4                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10159 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cblighting = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10160 | A | Open the circuit breaker 54Q10                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                  |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10161 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbpacs = 0.0        |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10162 | A | Close the circuit breaker 54Q10                                  |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10163 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbpacs = 1.0        |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10164 | A | Open the circuit breaker 44Q1                                    |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10165 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbsafetyfctr1 = 0.0 |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10166 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbsafetyfctr2 = 0.0 |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10167 | A | Close the circuit breaker 44Q1                                   |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10168 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbsafetyfctr1 = 1.0 |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10169 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbsafetyfctr2 = 1.0 |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10170 | A | Open the circuit breaker 13Q2                                    |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10171 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbsockets = 0.0     |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10172 | A | Close the circuit breaker 13Q2                                   |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10173 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbsockets = 1.0     |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10174 | A | Open the circuit breaker 25Q6                                    |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10175 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtcms1r1 = 0.0     |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10176 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtcms1r2 = 0.0     |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10177 | A | Close the circuit breaker 25Q6                                   |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10178 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtcms1r1 = 1.0     |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                |  |    |   |                                           |       |
|-------|---|----------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10179 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtcms1r2 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10180 | A | Open the circuit breaker 25Q10                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10181 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtcms2r1 = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10182 | A | Close the circuit breaker 25Q10                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10183 | A | Open the circuit breaker 25Q14                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10184 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtcms2r2 = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10185 | A | Close the circuit breaker 25Q14                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10186 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtcms2r1 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10187 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtcms2r2 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10188 | A | Open the circuit breaker 33Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10189 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtraction = 0.0  |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10190 | A | Close the circuit breaker 33Q1                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10191 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbtraction = 1.0  |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10192 | A | Open the circuit breaker 55Q2                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10193 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbvideoinfo = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10194 | A | Close the circuit breaker 55Q2                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10195 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m1cbvideoinfo = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10196 | I | M2                                                             |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                 |  |    |   |                                           |       |
|-------|---|-----------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10197 | A | Open the circuit breaker 15Q4                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10198 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cb110distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10199 | A | Close the circuit breaker 15Q4                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10200 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cb110distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10201 | A | Open the circuit breaker 13Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10202 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cb230distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10203 | A | Close the circuit breaker 13Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10204 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cb230distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10205 | A | Open the circuit breaker 57Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10206 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cb400distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10207 | A | Close the circuit breaker 57Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10208 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cb400distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10209 | A | Open the circuit breaker 40Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10210 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbbrake = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10211 | A | Close the circuit breaker 40Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10212 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbbrake = 1.0      |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10213 | A | Open the circuit breaker 50Q4                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10214 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbdoors = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                               |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10215 | A | Close the circuit breaker 50Q4                                |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10216 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbdoors = 1.0    |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10217 | A | Open the circuit breaker 21Q2                                 |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10218 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbenergy = 0.0   |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10219 | A | Close the circuit breaker 21Q2                                |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10220 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbenergy = 1.0   |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10221 | A | Open the circuit breaker 62Q2                                 |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10222 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbertmsr1 = 0.0  |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10223 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbertmsr2 = 0.0  |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10224 | A | Close the circuit breaker 62Q2                                |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10225 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbertmsr1 = 1.0  |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10226 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbertmsr2 = 1.0  |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10227 | A | Open the circuit breaker 57Q2                                 |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10228 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbhvacc = 0.0    |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10229 | A | Close the circuit breaker 57Q2                                |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10230 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbhvacc = 1.0    |  | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10231 | A | Open the circuit breaker 52Q4                                 |  | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10232 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cblighting = 0.0 |  | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                  |  |    |   |                                           |       |
|-------|---|------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10233 | A | Close the circuit breaker 52Q4                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10234 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cblighting = 1.0    |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10235 | A | Open the circuit breaker 54Q10                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10236 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbpacs = 0.0        |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10237 | A | Close the circuit breaker 54Q10                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10238 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbpacs = 1.0        |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10239 | A | Open the circuit breaker 44Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10240 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbsafetyfctr1 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10241 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbsafetyfctr2 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10242 | A | Close the circuit breaker 44Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10243 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbsafetyfctr1 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10244 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbsafetyfctr2 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10245 | A | Open the circuit breaker 13Q2                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10246 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbsockets = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10247 | A | Close the circuit breaker 13Q2                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10248 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbsockets = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10249 | A | Open the circuit breaker 25Q6                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10250 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtms1r1 = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

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|-------|---|----------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10251 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtcms1r2 = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10252 | A | Close the circuit breaker 25Q6                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10253 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtcms1r1 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10254 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtcms1r2 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10255 | A | Open the circuit breaker 25Q10                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10256 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtcms2r1 = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10257 | A | Close the circuit breaker 25Q10                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10258 | A | Open the circuit breaker 25Q14                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10259 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtcms2r2 = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10260 | A | Close the circuit breaker 25Q14                                |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10261 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtcms2r1 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10262 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtcms2r2 = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10263 | A | Open the circuit breaker 33Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10264 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtraction = 0.0  |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10265 | A | Close the circuit breaker 33Q1                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10266 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbtraction = 1.0  |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10267 | A | Open the circuit breaker 55Q2                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10268 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbvideoinfo = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                 |  |    |   |                                           |       |
|-------|---|-----------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10269 | A | Close the circuit breaker 55Q2                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10270 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m2cbvideoinfo = 1.0  |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10271 | I | M3                                                              |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10272 | A | Open the circuit breaker 15Q4                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10273 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cb110distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10274 | A | Close the circuit breaker 15Q4                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10275 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cb110distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10276 | A | Open the circuit breaker 13Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10277 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cb230distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10278 | A | Close the circuit breaker 13Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10279 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cb230distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10280 | A | Open the circuit breaker 57Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10281 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cb400distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10282 | A | Close the circuit breaker 57Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10283 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cb400distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10284 | A | Open the circuit breaker 40Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10285 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbbrake = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10286 | A | Close the circuit breaker 40Q1                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |



|       |   |                                                               |    |   |                                          |       |
|-------|---|---------------------------------------------------------------|----|---|------------------------------------------|-------|
| 10287 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbbrake = 1.0    | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10288 | A | Open the circuit breaker 50Q4                                 | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10289 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbdoors = 0.0    | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10290 | A | Close the circuit breaker 50Q4                                | OK |   | Mphato Mphahlele<br>480716<br>20.11.2025 | Train |
| 10291 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbdoors = 1.0    | OK | 1 | Mphato Mphahlele<br>480716<br>20.11.2025 | Train |
| 10292 | A | Open the circuit breaker 57Q2                                 | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10293 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbhvac = 0.0     | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10294 | A | Close the circuit breaker 57Q2                                | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10295 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbhvac = 1.0     | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10296 | A | Open the circuit breaker 52Q4                                 | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10297 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cblighting = 0.0 | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10298 | A | Close the circuit breaker 52Q4                                | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10299 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cblighting = 1.0 | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10300 | A | Open the circuit breaker 54Q10                                | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10301 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbpacs = 0.0     | OK | 0 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10302 | A | Close the circuit breaker 54Q10                               | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10303 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbpacs = 1.0     | OK | 1 | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |
| 10304 | A | Open the circuit breaker 44Q1                                 | OK |   | Siphehile Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                  |  |    |   |                                           |       |
|-------|---|------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10305 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbsafetyfctr1 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10306 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbsafetyfctr2 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10307 | A | Close the circuit breaker 44Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10308 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbsafetyfctr1 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10309 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbsafetyfctr2 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10310 | A | Open the circuit breaker 13Q2                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10311 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbsockets = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10312 | A | Close the circuit breaker 13Q2                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10313 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbsockets = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10314 | A | Open the circuit breaker 25Q6                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10315 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtcms1r1 = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10316 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtcms1r2 = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10317 | A | Close the circuit breaker 25Q6                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10318 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtcms1r1 = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10319 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtcms1r2 = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10320 | A | Open the circuit breaker 25Q10                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10321 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtcms2r1 = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10322 | A | Close the circuit breaker 25Q10                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

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|-------|---|------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10323 | A | Open the circuit breaker 25Q14                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10324 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtcms2r2 = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10325 | A | Close the circuit breaker 25Q14                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10326 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtcms2r1 = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10327 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtcms2r2 = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10328 | A | Open the circuit breaker 33Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10329 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtraction = 0.0    |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10330 | A | Close the circuit breaker 33Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10331 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbtraction = 1.0    |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10332 | A | Open the circuit breaker 55Q2                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10333 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbvideoinfo = 0.0   |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10334 | A | Close the circuit breaker 55Q2                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10335 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_m3cbvideoinfo = 1.0   |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10336 | I | TC2                                                              |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10337 | A | Open the circuit breaker 15Q4                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10338 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cb110distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10339 | A | Close the circuit breaker 15Q4                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10340 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cb110distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                  |  |    |   |                                           |       |
|-------|---|------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10341 | A | Open the circuit breaker 13Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10342 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cb230distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10343 | A | Close the circuit breaker 13Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10344 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cb230distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10345 | A | Open the circuit breaker 57Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10346 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cb400distrib = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10347 | A | Close the circuit breaker 57Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10348 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cb400distrib = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10349 | A | Open the circuit breaker 72Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10350 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbauxfct = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10351 | A | Close the circuit breaker 72Q1                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10352 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbauxfct = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10353 | A | Open the circuit breaker 40Q4                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10354 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbbrake = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10355 | A | Close the circuit breaker 40Q4                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10356 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbbrake = 1.0      |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10357 | A | Open the circuit breaker 50Q7                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10358 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbdoors = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                   |  |    |   |                                           |       |
|-------|---|-------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10359 | A | Close the circuit breaker 50Q7                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10360 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbdoors = 1.0       |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10361 | A | Open the circuit breaker 22Q1                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10362 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbenergy = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10363 | A | Close the circuit breaker 22Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10364 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbenergy = 1.0      |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10365 | A | Open the circuit breaker 44Q1.                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10366 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbsafetyfctr1 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10367 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbsafetyfctr2 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10368 | A | Close the circuit breaker 44Q1                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10369 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbsafetyfctr1 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10370 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbsafetyfctr2 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10371 | A | Open the circuit breaker 72Q2                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10372 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbsockets = 0.0     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10373 | A | Close the circuit breaker 72Q2                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10374 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbsockets = 1.0     |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10375 | A | Open the circuit breaker 25Q11                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10376 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbtms1r1 = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                    |  |    |   |                                           |       |
|-------|---|--------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10377 | A | Close the circuit breaker 25Q11                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10378 | A | Open the circuit breaker 25Q15                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10379 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbtcms1r2 = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10380 | A | Close the circuit breaker 25Q15                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10381 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbtcms1r1 = 1.0      |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10382 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbtcms1r2 = 1.0      |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10383 | A | Open the circuit breaker 25Q10                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10384 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbtcms2r1 = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10385 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbtcms2r2 = 0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10386 | A | Close the circuit breaker 25Q10                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10387 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbtcms2r1 = 1.0      |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10388 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbtcms2r2 = 1.0      |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10389 | A | Open the circuit breaker 75Q1                                      |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10390 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbdrivingfctr1 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10391 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbdrivingfctr2 = 0.0 |  | OK | 0 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10392 | A | Close the circuit breaker 75Q1                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10393 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbdrivingfctr1 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |
| 10394 | R | Read Defined Variable [TT]<br>(MPU1)li_ddk_tc2cbdrivingfctr2 = 1.0 |  | OK | 1 | Siphesihle Mchunu<br>491465<br>19.11.2025 | Train |

|       |   |                                                                                    |  |    |  |                                          |       |
|-------|---|------------------------------------------------------------------------------------|--|----|--|------------------------------------------|-------|
| 10395 | R | On the Driver's event list, check there are no IOS recorded about circuit breakers |  | OK |  | Mphato Mphahlele<br>480716<br>20.11.2025 | Train |
| 10396 | I | End of Test                                                                        |  | OK |  | Mphato Mphahlele<br>480716<br>20.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|



## Section 12 – Air Conditioning

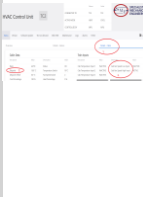
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### 12.1 Instructions list

### 12.1.1 SME and TK HVAC

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                                                                                                                                                                                     | File                                                                                | Result status | Result value | Operator                                 | Vehicle |
|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|------------------------------------------|---------|
| 10001 | I    | Air Conditioning SPP=057                                                                                                                                                                                                                                                        |                                                                                     | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10002 | A    | Turn Key 30A1.S1 to Active Cabin Position on TC1                                                                                                                                                                                                                                |                                                                                     | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10003 | I    | Train Prepared in High voltage with active cab on TC1                                                                                                                                                                                                                           |                                                                                     | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10004 | I    | Please note that HVAC has protection against too low and too high temperatures. It is important to note that this is not a fault.                                                                                                                                               |                                                                                     | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10005 | I    | Web portal guide                                                                                                                                                                                                                                                                |                                                                                     | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10006 | I    | Please note that there are two types of HVACs that may be installed in one train. One is TK HVAC and the other is SME HVAC. They both function the same way, but the web portal is different. The below documents are a guide on how to navigate both web portals.              |                                                                                     | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10007 | A    |                                                                                                                                                                                                                                                                                 |  | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10008 | A    |                                                                                                                                                                                                                                                                                 |  | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10009 | I    | Cabin TC1                                                                                                                                                                                                                                                                       |                                                                                     | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10010 | I    | Use the temperature sensor to verify the temperature of the cabin                                                                                                                                                                                                               |                                                                                     | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10011 | A    | Connect the laptop to the HVAC maintenance software using web browser. Enter the following IP address on the web browser 10.136.xxx.27<br>xxx represents the train number<br>SME HVAC<br>Login: maint<br>Password: maint<br><br>TK HVAC<br>Login: supervisor<br>Password: super |                                                                                     | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |

|       |   |                                                                                                                                                                                                                                              |                                                                                   |    |  |                                          |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|--|------------------------------------------|-------|
| 10012 | A | For SME HVAC go to the status tab, then go to Details-Cabin to view the cabin operations. Note the set temperature and the fan speed<br>For TK HVAC go to Overview then Forced and scroll down to 'CAB forced' to view the cabin operations. |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10013 | I | Check the Steps below and compare with Maintenance software                                                                                                                                                                                  |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10014 | A | Select the switch 57S1 to Low Speed Ventilation                                                                                                                                                                                              |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10015 | R | On the maintenance screen the Cab Fan Speed Low Input is showing as ACTIVE whilst the Cab Fan Speed High Input is showing as INACTIVE                                                                                                        |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10016 | A | Select the switch '57S2' to position 0                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10017 | R | Temperature is set to 18°C                                                                                                                                                                                                                   |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10018 | A | Select the switch '57S2' to position 1                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10019 | R | Temperature is set to 20°C                                                                                                                                                                                                                   |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10020 | A | Select the switch '57S2' to position 2                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10021 | R | Temperature is set to 22°C                                                                                                                                                                                                                   |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10022 | A | Select the switch '57S2' to position 3                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10023 | R | Temperature is set to 24°C                                                                                                                                                                                                                   |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10024 | A | Select the switch '57S2' to position 4                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10025 | R | Temperature is set to 26°C                                                                                                                                                                                                                   |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10026 | A | Now select the switch '57S1' to High Ventilation                                                                                                                                                                                             |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10027 | R | On the maintenance screen the Cab Fan Speed High Input is showing as ACTIVE whilst the Cab Fan Speed Low Input is showing as INACTIVE                                                                                                        |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10028 | A | Select the switch '57S2' to position 0                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                           |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10029 | R | Temperature is set to 18°C                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10030 | A | Select the switch '57S2' to position 1                                    |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10031 | R | Temperature is set to 20°C                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10032 | A | Select the switch '57S2' to position 2                                    |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10033 | R | Temperature is set to 22°C                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10034 | A | Select the switch '57S2' to position 3                                    |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10035 | R | Temperature is set to 24°C                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10036 | A | Select the switch '57S2' to position 4                                    |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10037 | R | Temperature is set to 26°C                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10038 | I | Cabin Footrest Heater Test on TC1                                         |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10039 | R | Read Defined Variable [TT]<br>(MPU1)li_hva_tc1footheaterfault__1 =<br>0.0 |  | OK | 0 | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10040 | R | Foot Heater is Off                                                        |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10041 | A | Simulate a failure of the heater by opening<br>circuit breaker 57Q2       |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10042 | A | Press the button 57S3                                                     |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10043 | R | Foot Heater is Off                                                        |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)li_hva_tc1footheaterfault__1 =<br>1.0 |  | OK | 1 | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10045 | A | Release '57S3' pushbutton                                                 |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10046 | A | Close circuit breaker 57Q2                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                                                                                                                                                         |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10047 | A | Press the button 57S3 to activate the foot heater                                                                                                                                                       |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10048 | R | Read Defined Variable [TT]<br>(MPU1)li_hva_tc1footheaterfault___1 = 0.0                                                                                                                                 |  | OK | 0 | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10049 | R | Foot Heater is ON                                                                                                                                                                                       |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10050 | I | HVAC Saloon TC1                                                                                                                                                                                         |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10051 | A | On the maintenance software web-browser, go to alarms tab and clear all the alarms and events for TC1 saloon and cabin                                                                                  |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10052 | A | Launch the HVAC test for TC1 car on the DDU maintenance screen                                                                                                                                          |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10053 | A | On the maintenance software, check that the HVAC mode for TC1 corresponds to the status on the DDU Screen. For every 3 minutes the HVAC mode should change between Ventilation, Heating and Cooling     |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10054 | R | After 9 minutes, TC1 saloon HVAC test has passed.                                                                                                                                                       |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10055 | I | If the test has not passed, use the maintenance software to check which mode failed and also the alarms recorded during testing to help with fault finding.                                             |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10056 | I | HVAC Cabin TC1                                                                                                                                                                                          |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10057 | A | Launch the HVAC test for the TC1 Cab                                                                                                                                                                    |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10058 | A | On the maintenance software, check that the HVAC mode for TC1 Cab corresponds to the status on the DDU Screen. For every 3 minutes the HVAC mode should change between Ventilation, Heating and Cooling |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10059 | R | After 9 minutes, the TC1 cabin HVAC test has passed.                                                                                                                                                    |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10060 | I | If the test has not passed, use the maintenance software to check which mode failed and also the alarms recorded during testing to help with fault finding.                                             |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10061 | I | HVAC Saloon M4                                                                                                                                                                                          |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10062 | A | On the web-browser open a new tab and Enter the following IP address:<br>10.136.xxx.32<br>SME HVAC                                                                                                      |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                                                                                                                                                    |  |    |  |                                          |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|------------------------------------------|-------|
|       |   | Login: maint<br>Password: maint<br><br>TK HVAC<br>Login: supervisor<br>Password: super                                                                                                             |  |    |  |                                          |       |
| 10063 | A | On the maintenance software go to alarms tab and clear all the alarms and events for M4 car                                                                                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10064 | A | Launch the HVAC test for M4 car on the DDU maintenance screen                                                                                                                                      |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10065 | A | On the maintenance software, check that the HVAC mode for M4 corresponds to the status on the DDU Screen. For every 3 minutes the HVAC mode should change between Ventilation, Heating and Cooling |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10066 | R | After 9 minutes, the M4 saloon HVAC test has passed.                                                                                                                                               |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10067 | I | If the test has not passed, use the maintenance software to check which mode failed and also the alarms recorded during testing to help with fault finding.                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10068 | I | HVAC Saloon M1                                                                                                                                                                                     |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10069 | A | On the web-browser open a new tab and Enter the following IP address:<br>10.136.xxx.29<br>SME HVAC<br>Login: maint<br>Password: maint<br><br>TK HVAC<br>Login: supervisor<br>Password: super       |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10070 | A | On the maintenance software go to alarms tab clear all the alarms and events for M1 car                                                                                                            |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10071 | A | Launch the HVAC test for M1 car on the DDU maintenance screen                                                                                                                                      |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10072 | A | On the maintenance software, check that the HVAC mode for M1 corresponds to the status on the DDU Screen. For every 3 minutes the HVAC mode should change between Ventilation, Heating and Cooling |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10073 | R | After 9 minutes, the M1 saloon HVAC test has passed.                                                                                                                                               |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10074 | I | If the test has not passed, use the maintenance software to check which mode failed and also the alarms recorded during testing to help with fault finding.                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10075 | I | HVAC Saloon M2                                                                                                                                                                                     |  | OK |  | Sthabile Dlamini<br>418538               | Train |

|       |   |                                                                                                                                                                                                    |  |    |  |                                          |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|------------------------------------------|-------|
|       |   |                                                                                                                                                                                                    |  |    |  | 19.11.2025                               |       |
| 10076 | A | On the web-browser open a new tab and Enter the following IP address:<br>10.136.xxx.30<br><br>SME HVAC<br>Login: maint<br>Password: maint<br><br>TK HVAC<br>Login: supervisor<br>Password: super   |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10077 | A | On the maintenance software go to alarms tab and clear all the alarms and events for M2 car                                                                                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10078 | A | Launch the HVAC test for M2 car on the DDU maintenance screen                                                                                                                                      |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10079 | A | On the maintenance software, check that the HVAC mode for M2 corresponds to the status on the DDU Screen. For every 3 minutes the HVAC mode should change between Ventilation, Heating and Cooling |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10080 | R | After 9 minutes, the M2 saloon HVAC test has passed.                                                                                                                                               |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10081 | I | If the test has not passed, use the maintenance software to check which mode failed and also the alarms recorded during testing to help with fault finding.                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10082 | I | HVAC Saloon M3                                                                                                                                                                                     |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10083 | A | On the web-browser open a new tab and Enter the following IP address:<br>10.136.xxx.31<br><br>SME HVAC<br>Login: maint<br>Password: maint<br><br>TK HVAC<br>Login: supervisor<br>Password: super   |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10084 | A | On the maintenance software go to alarms tab and clear all the alarms and events for M3 car                                                                                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10085 | A | Launch the HVAC test for M3 car on the DDU maintenance screen                                                                                                                                      |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10086 | A | On the maintenance software, check that the HVAC mode for M3 corresponds to the status on the DDU Screen. For every 3 minutes the HVAC mode should change between Ventilation, Heating and Cooling |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                                                                                                                                                         |  |    |  |                                          |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|------------------------------------------|-------|
| 10087 | R | After 9 minutes, the M3 saloon HVAC test has passed.                                                                                                                                                    |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10088 | I | If the test has not passed, use the maintenance software to check which mode failed and also the alarms recorded during testing to help with fault finding.                                             |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10089 | I | HVAC Saloon TC2                                                                                                                                                                                         |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10090 | A | On the web-browser open a new tab and Enter the following IP address:<br>10.136.xxx.28<br><br>SME HVAC<br>Login: maint<br>Password: maint<br><br>TK HVAC<br>Login: supervisor<br>Password: super        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10091 | A | On the maintenance software go to alarms tab and clear all the alarms and events for TC2 car                                                                                                            |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10092 | A | Launch the HVAC test for TC2 car on the DDU maintenance screen                                                                                                                                          |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10093 | A | On the maintenance software, check that the HVAC mode for TC2 corresponds to the status on the DDU Screen. For every 3 minutes the HVAC mode should change between Ventilation, Heating and Cooling     |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10094 | R | After 9 minutes, the TC2 saloon HVAC test has passed.                                                                                                                                                   |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10095 | I | If the test has not passed, use the maintenance software to check which mode failed and also the alarms recorded during testing to help with fault finding.                                             |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10096 | I | HVAC Cabin TC2                                                                                                                                                                                          |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10097 | A | Launch the HVAC test for the TC2 Cab                                                                                                                                                                    |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10098 | A | On the maintenance software, check that the HVAC mode for TC2 Cab corresponds to the status on the DDU Screen. For every 3 minutes the HVAC mode should change between Ventilation, Heating and Cooling |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10099 | R | After 9 minutes, the TC2 saloon HVAC test has passed.                                                                                                                                                   |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10100 | I | If the test has not passed, use the maintenance software to check which                                                                                                                                 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |



|       |   |                                                                                                                                                                                                                                              |                                                                                   |    |  |                                          |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|--|------------------------------------------|-------|
|       |   | mode failed and also the alarms recorded during testing to help with fault finding.                                                                                                                                                          |                                                                                   |    |  |                                          |       |
| 10101 | A | Turn Key 30A1.S1 to Non-Active Cabin Position on TC1                                                                                                                                                                                         |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10102 | I | Cabin TC2                                                                                                                                                                                                                                    |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10103 | A | Turn Key 30A1.S1 to Active Cabin Position on TC2                                                                                                                                                                                             |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10104 | A | For SME HVAC go to the status tab, then go to Details-Cabin to view the cabin operations. Note the set temperature and the fan speed<br>For TK HVAC go to Overview then Forced and scroll down to 'CAB forced' to view the cabin operations. |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10105 | I | Check the Steps below and compare with Maintenance software                                                                                                                                                                                  |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10106 | A | Select the switch 57S1 to Low Speed Ventilation                                                                                                                                                                                              |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10107 | R | On the maintenance screen the Cab Fan Speed Low Input is showing as ACTIVE whilst the Cab Fan Speed High Input is showing as INACTIVE                                                                                                        |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10108 | A | Select the switch '57S2' to position 0                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10109 | R | Temperature is set to 18°C                                                                                                                                                                                                                   |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10110 | A | Select the switch '57S2' to position 1                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10111 | R | Temperature is set to 20°C                                                                                                                                                                                                                   |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10112 | A | Select the switch '57S2' to position 2                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10113 | R | Temperature is set to 22°C                                                                                                                                                                                                                   |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10114 | A | Select the switch '57S2' to position 3                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10115 | R | Temperature is set to 24°C                                                                                                                                                                                                                   |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10116 | A | Select the switch '57S2' to position 4                                                                                                                                                                                                       |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                                                                                       |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10117 | R | Temperature is set to 26°C                                                                                                            |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10118 | A | Now select the switch '57S1' to High Ventilation                                                                                      |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10119 | R | On the maintenance screen the Cab Fan Speed High Input is showing as ACTIVE whilst the Cab Fan Speed Low Input is showing as INACTIVE |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10120 | A | Select the switch '57S2' to position 0                                                                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10121 | R | Temperature is set to 18°C                                                                                                            |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10122 | A | Select the switch '57S2' to position 1                                                                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10123 | R | Temperature is set to 20°C                                                                                                            |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10124 | A | Select the switch '57S2' to position 2                                                                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10125 | R | Temperature is set to 22°C                                                                                                            |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10126 | A | Select the switch '57S2' to position 3                                                                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10127 | R | Temperature is set to 24°C                                                                                                            |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10128 | A | Select the switch '57S2' to position 4                                                                                                |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10129 | R | Temperature is set to 26°C                                                                                                            |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10130 | I | Cabin Footrest Heater Test on TC2                                                                                                     |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10131 | R | Read Defined Variable [TT]<br>(MPU1)li_hva_tc2footheaterfault__1 = 0.0                                                                |  | OK | 0 | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10132 | R | Foot Heater is switch Off                                                                                                             |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10133 | A | Simulate a failure of the heater by opening circuit breaker 57Q2                                                                      |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10134 | A | Command '57S3' pushbutton                                                                                                             |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                                                                    |                                                                                     |    |   |                                          |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|---|------------------------------------------|-------|
| 10135 | R | Read Defined Variable [TT]<br>(MPU1)li_hva_tc2footheaterfault__1 = 1.0                                             |                                                                                     | OK | 1 | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10136 | R | Foot Heater is switch Off                                                                                          |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10137 | A | Release '57S3' pushbutton                                                                                          |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10138 | A | Close 57Q2                                                                                                         |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10139 | A | Command '57S3' pushbutton                                                                                          |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10140 | R | Read Defined Variable [TT]<br>(MPU1)li_hva_tc2footheaterfault__1 = 0.0                                             |                                                                                     | OK | 0 | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10141 | R | Foot Heater is switch ON                                                                                           |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10142 | I | Emergency Ventilation Mode                                                                                         |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10143 | R | All HVACs are working in NORMAL condition                                                                          |  | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10144 | A | Switch off the catenary voltage 3kV                                                                                |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10145 | R | Both Auxiliary Converter stop to work                                                                              |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10146 | R | 400 V AC is not present on train                                                                                   |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10147 | R | No high voltage power is available on HVAC unit to operate Ventilation and Cooling or Heating.                     |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10148 | R | All HVAC units and Cab HVAC units stop                                                                             |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10149 | R | After about 45 seconds without 400V, Auxiliary Converter will generate 400V from Train Batteries with an inverter. |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10150 | R | After this time about (45s) All HVAC units will operate in "Emergency Ventilation"                                 |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10151 | A | Switch on the 3kV on the catenary                                                                                  |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10152 | R | Now, 400V AC is available by Auxiliary Converter                                                                   |                                                                                     | OK |   | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                                                                                                            |                                                                                   |    |  |                                          |       |
|-------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|--|------------------------------------------|-------|
| 10153 | R | All HVAC units and Cab HVAC units only operate Ventilation with maximum fresh airflow then change to a specific mode based on the surrounding temperatures |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10154 | I | End of Test                                                                                                                                                |                                                                                   | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |



## Section 13 – Driving Command

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### 13.1 Instructions list

### 13.1.1 Driving Command

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                    | File | Result status | Result value | Operator                                 | Vehicle |
|-------|------|----------------------------------------------------------------|------|---------------|--------------|------------------------------------------|---------|
| 10001 | I    | Driving command = SPP 30                                       |      | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                             |      | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10003 | I    | Train should be prepared with High voltage                     |      | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10004 | I    | Deadman override switch 60S1 must be in OVERRIDE position      |      | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10005 | I    | Driving command TC1 side                                       |      | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10006 | I    | Direction Selector Switch TC1                                  |      | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10007 | A    | Put the Direction selector switch 30A1.S2 in NEUTRAL position  |      | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10008 | R    | Read Defined Variable [TT]<br>(TBCU1)LI_FORWARD = 0.0          |      | OK            | 0            | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10009 | R    | Read Defined Variable [TT]<br>(TBCU2)LI_FORWARD = 0.0          |      | OK            | 0            | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10010 | R    | Read Defined Variable [TT]<br>(TBCU3)LI_FORWARD = 0.0          |      | OK            | 0            | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10011 | R    | Read Defined Variable [TT]<br>(TBCU4)LI_FORWARD = 0.0          |      | OK            | 0            | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10012 | R    | Read Defined Variable [TT]<br>(TBCU1)LI_REVERSE = 0.0          |      | OK            | 0            | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10013 | R    | Read Defined Variable [TT]<br>(TBCU2)LI_REVERSE = 0.0          |      | OK            | 0            | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10014 | R    | Read Defined Variable [TT]<br>(TBCU3)LI_REVERSE = 0.0          |      | OK            | 0            | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10015 | R    | Read Defined Variable [TT]<br>(TBCU4)LI_REVERSE = 0.0          |      | OK            | 0            | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10016 | R    | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1dsnozeror1 = 0.0 |      | OK            | 0            | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |

|       |   |                                                                  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------|----|---|------------------------------------------|-------|
| 10017 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1dsreverser1 = 0.0  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10018 | A | Put the Direction selector switch 30A1.S2<br>in FORWARD position | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10019 | R | Read Defined Variable [TT]<br>(TBCU1)LI_FORWARD = 1.0            | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10020 | R | Read Defined Variable [TT]<br>(TBCU2)LI_FORWARD = 0.0            | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10021 | R | Read Defined Variable [TT]<br>(TBCU3)LI_FORWARD = 0.0            | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10022 | R | Read Defined Variable [TT]<br>(TBCU4)LI_FORWARD = 1.0            | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(TBCU1)LI_REVERSE = 0.0            | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(TBCU2)LI_REVERSE = 1.0            | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10025 | R | Read Defined Variable [TT]<br>(TBCU3)LI_REVERSE = 1.0            | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT]<br>(TBCU4)LI_REVERSE = 0.0            | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1dsnozeror1 = 1.0   | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1dsreverser1 = 0.0  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10029 | A | Put the Direction selector switch 30A1.S2<br>in REVERSE position | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10030 | R | Read Defined Variable [TT]<br>(TBCU1)LI_FORWARD = 0.0            | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(TBCU2)LI_FORWARD = 1.0            | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(TBCU3)LI_FORWARD = 1.0            | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>(TBCU4)LI_FORWARD = 0.0            | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10034 | R | Read Defined Variable [TT]<br>(TBCU1)LI_REVERSE = 1.0            | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |



|       |   |                                                                              |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT]<br>(TBCU2)LI_REVERSE = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10036 | R | Read Defined Variable [TT]<br>(TBCU3)LI_REVERSE = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10037 | R | Read Defined Variable [TT]<br>(TBCU4)LI_REVERSE = 1.0                        |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1dsnozeror1 = 1.0               |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10039 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1dsreverser1 = 1.0              |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10040 | I | Reduced Power Test TC1                                                       |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10041 | I | Button Lamp 30S2 is OFF                                                      |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10042 | I | Driving mode switch in SPEED CONTROL mode                                    |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10043 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1reducedpowerr1 = 0.0           |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc1reducedlampr1 = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10045 | A | Press button 30S2 to activate the reduced power mode and maintain it         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10046 | R | Button Lamp 30S2 is ON                                                       |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10047 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1reducedpowerr1 = 1.0           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10048 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc1reducedlampr1 = 1.0            |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10049 | A | Release the button 30S2 and press it again to de-activate reduced power mode |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10050 | R | Button Lamp 30S2 is OFF                                                      |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10051 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1reducedpowerr1 = 0.0           |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10052 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc1reducedlampr1 = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                              |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10053 | A | Put the driving mode switch to EFFORT mode                                   |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10054 | A | Press button 30S2 to activate the reduced power mode and maintain it         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10055 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1reducedpowerr1 = 1.0           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10056 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc1reducedlampr1 = 1.0            |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10057 | A | Release the button 30S2 and press it again to de-activate reduced power mode |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10058 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1reducedpowerr1 = 0.0           |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10059 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc1reducedlampr1 = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10060 | I | It not possible to activate reduced power in depot or coupling mode          |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10061 | A | Put the driving mode switch to DEPOT mode                                    |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10062 | A | Press button 30S2 to activate the reduced power mode and maintain it         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10063 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc1reducedlampr1 = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10064 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1reducedpowerr1 = 1.0           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10065 | A | Release the button 30S2                                                      |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10066 | A | Put the driving mode switch to COUPLING mode                                 |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10067 | A | Press button 30S2 to activate the reduced power mode and maintain it         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10068 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc1reducedlampr1 = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10069 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1reducedpowerr1 = 1.0           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10070 | A | Release the button 30S2                                                      |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                          |  |    |   |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10071 | I | Master Controller / No Brake                                             |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10072 | I | The direction selector switch 30A1.S2 must be in NEUTRAL position        |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10073 | I | The Master controller of Traction/Brake should be on OFF position        |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10074 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1alldoorsclosedr1 = 0.0     |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10075 | I | The Traction Interlock Override Switch 31S1 should be in NORMAL position |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10076 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 1.0                     |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10077 | R | LED 31H1 is OFF on the alarm module                                      |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10078 | R | LED 44H4 is "ON" on the alarm module                                     |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10079 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                    |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10080 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                    |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10081 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                   |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10082 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                   |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10083 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                   |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10084 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                   |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10085 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 1.0                     |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10086 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 1.0                     |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10087 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 1.0                    |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10088 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 1.0                    |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                           |  |    |      |                                          |       |
|-------|---|---------------------------------------------------------------------------|--|----|------|------------------------------------------|-------|
| 10089 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10090 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10091 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch1 :<br>5479<= x <= 6369  |  | OK | 5984 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10092 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch2 :<br>5479<= x <= 6369  |  | OK | 5984 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractonr1 = 0.0           |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractonr2 = 0.0           |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10095 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr1 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10096 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr2 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10097 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker1 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker2 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10099 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker1 =<br>0.0 |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10100 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker2 =<br>0.0 |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10101 | A | Put the Direction selector switch 30A1.S2<br>in FORWARD position          |  | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 0.0                      |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10103 | R | LED 44H4 is OFF on the alarm module                                       |  | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10104 | R | LED 31H1 is "ON" on the alarm module                                      |  | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10105 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                     |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                     |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                          |  |    |      |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|------|------------------------------------------|-------|
| 10107 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10108 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10109 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10110 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10111 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10112 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10113 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10114 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10115 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10116 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10117 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch1 :<br>5479<= x <= 6369 |  | OK | 5984 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10118 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch2 :<br>5479<= x <= 6369 |  | OK | 5984 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10119 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractonr1 = 0.0          |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10120 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractonr2 = 0.0          |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10121 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr1 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10122 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr2 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10123 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker1 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10124 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker2 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                                              |  |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10125 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker1 = 0.0                       |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10126 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker2 = 0.0                       |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10127 | I | For safety purposes ENSURE that NO one is working NEAR, OUTSIDE or on the DOORS of the Train |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10128 | A | Press Automatic Start Button to Drop the Pantographs                                         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10129 | A | Timer 15.0 S                                                                                 |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10130 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m1pantorisedr1 = 0.0                              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10131 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m1pantorisedr2 = 0.0                              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10132 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m2pantorisedr1 = 0.0                              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10133 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m2pantorisedr2 = 0.0                              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10134 | A | Put the Master controller of Traction/Brake in 100% TRACTION position                        |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10135 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 1.0                                        |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10136 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 1.0                                        |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10137 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 1.0                                       |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10138 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 1.0                                       |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10139 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 1.0                                       |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10140 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 1.0                                       |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10141 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 1.0                                         |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10142 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 1.0                                         |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                            |  |    |       |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10143 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 1.0                      |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10144 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 1.0                      |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10145 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 1.0                      |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10146 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 1.0                      |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10147 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch1 :<br>29183<= x <= 31102 |  | OK | 30944 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10148 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch2 :<br>29183<= x <= 31102 |  | OK | 30880 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10149 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractior1 = 1.0            |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10150 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractior2 = 1.0            |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10151 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr1 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10152 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr2 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10153 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker1 = 0.0              |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10154 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker2 = 0.0              |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10155 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker1 =<br>0.0  |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10156 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker2 =<br>0.0  |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10157 | A | Put the Master controller of<br>Traction/Brake in OFF position             |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10158 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10159 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10160 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                           |  |    |      |                                          |       |
|-------|---|---------------------------------------------------------------------------|--|----|------|------------------------------------------|-------|
| 10161 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                    |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10162 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                    |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10163 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                    |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10164 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 1.0                      |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10165 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 1.0                      |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10166 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10167 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10168 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10169 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10170 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch1 :<br>5479<= x <= 6369  |  | OK | 5984 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10171 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch2 :<br>5479<= x <= 6369  |  | OK | 6000 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10172 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractonr1 = 0.0           |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10173 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractonr2 = 0.0           |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10174 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr1 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10175 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr2 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10176 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker1 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10177 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker2 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10178 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker1 =<br>0.0 |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |



|       |   |                                                                            |  |    |       |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10179 | A | Put the direction selector switch in REVERSE position                      |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10180 | A | Put the Master controller of Traction/Brake in 100% BRAKE position         |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10181 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10182 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10183 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10184 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10185 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10186 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10187 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 0.0                       |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10188 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 0.0                       |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10189 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10190 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10191 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10192 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10193 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch1 :<br>29183<= x <= 31102 |  | OK | 30960 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10194 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch2 :<br>29183<= x <= 31102 |  | OK | 30880 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10195 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mtractionr1 = 0.0            |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10196 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mtractionr2 = 0.0            |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                               |  |    |   |                                          |       |
|-------|---|-------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10197 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr1 = 1.0                 |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10198 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr2 = 1.0                 |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10199 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker1 = 1.0                 |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10200 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker2 = 1.0                 |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10201 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker1 = 0.0        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10202 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker2 = 0.0        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10203 | A | Put the Master controller of<br>Traction/Brake in EMERGENCY BRAKE<br>position |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10204 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                         |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10205 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                         |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10206 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10207 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10208 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10209 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10210 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 0.0                          |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10211 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 0.0                          |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10212 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 0.0                         |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10213 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 0.0                         |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10214 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 0.0                         |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                            |  |    |       |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10215 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10216 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch1 :<br>29183<= x <= 31102 |  | OK | 30944 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10217 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc1mcpositionch2 :<br>29183<= x <= 31102 |  | OK | 30896 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10218 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractio1 = 0.0             |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10219 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mctractio2 = 0.0             |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10220 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr1 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10221 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcnoastr2 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10222 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker1 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10223 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcbraker2 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10224 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker1 =<br>1.0  |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10225 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1mcemergencybraker2 =<br>1.0  |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10226 | I | Driving command TC2 side                                                   |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10227 | I | Direction Selector Switch TC2                                              |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10228 | A | Switch active cab to TC2                                                   |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10229 | A | Press 21S1 to raise the Pantographs                                        |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10230 | A | Press 22S11 to close the HSCB                                              |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10231 | A | Put the Direction selector switch 30A1.S2<br>in NEUTRAL position           |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10232 | R | Read Defined Variable [TT]<br>(TBCU1)LI_FORWARD = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                  |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10233 | R | Read Defined Variable [TT]<br>(TBCU2)LI_FORWARD = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10234 | R | Read Defined Variable [TT]<br>(TBCU3)LI_FORWARD = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10235 | R | Read Defined Variable [TT]<br>(TBCU4)LI_FORWARD = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10236 | R | Read Defined Variable [TT]<br>(TBCU1)LI_REVERSE = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10237 | R | Read Defined Variable [TT]<br>(TBCU2)LI_REVERSE = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10238 | R | Read Defined Variable [TT]<br>(TBCU3)LI_REVERSE = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10239 | R | Read Defined Variable [TT]<br>(TBCU4)LI_REVERSE = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10240 | A | Put the Direction selector switch 30A1.S2<br>in FORWARD position |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10241 | R | Read Defined Variable [TT]<br>(TBCU1)LI_FORWARD = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10242 | R | Read Defined Variable [TT]<br>(TBCU2)LI_FORWARD = 1.0            |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10243 | R | Read Defined Variable [TT]<br>(TBCU3)LI_FORWARD = 1.0            |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10244 | R | Read Defined Variable [TT]<br>(TBCU4)LI_FORWARD = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10245 | R | Read Defined Variable [TT]<br>(TBCU1)LI_REVERSE = 1.0            |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10246 | R | Read Defined Variable [TT]<br>(TBCU2)LI_REVERSE = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10247 | R | Read Defined Variable [TT]<br>(TBCU3)LI_REVERSE = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10248 | R | Read Defined Variable [TT]<br>(TBCU4)LI_REVERSE = 1.0            |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10249 | A | Put the Direction selector switch 30A1.S2<br>in REVERSE position |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10250 | R | Read Defined Variable [TT]<br>(TBCU1)LI_FORWARD = 1.0            |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                                 |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10251 | R | Read Defined Variable [TT]<br>(TBCU2)LI_FORWARD = 0.0                           |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10252 | R | Read Defined Variable [TT]<br>(TBCU3)LI_FORWARD = 0.0                           |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10253 | R | Read Defined Variable [TT]<br>(TBCU4)LI_FORWARD = 1.0                           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10254 | R | Read Defined Variable [TT]<br>(TBCU1)LI_REVERSE = 0.0                           |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10255 | R | Read Defined Variable [TT]<br>(TBCU2)LI_REVERSE = 1.0                           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10256 | R | Read Defined Variable [TT]<br>(TBCU3)LI_REVERSE = 1.0                           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10257 | R | Read Defined Variable [TT]<br>(TBCU4)LI_REVERSE = 0.0                           |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10258 | A | Put Master Controller in OFF position                                           |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10259 | I | Button Lamp 30S2 is OFF                                                         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10260 | I | Reduced Power Test TC2                                                          |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10261 | A | Put the driving mode switch in SPEED<br>CONTROL mode                            |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10262 | A | Press button 30S2 to activate the reduced<br>power mode and maintain it         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10263 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2reducedpowerr1 = 1.0              |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10264 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc2reducedlampr1 = 1.0               |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10265 | R | Button Lamp 30S2 is ON                                                          |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10266 | A | Release the button 30S2 and press it<br>again to de-activate reduced power mode |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10267 | R | Button Lamp 30S2 is OFF                                                         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10268 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2reducedpowerr1 = 0.0              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                              |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10269 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc2reducedlampr1 = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10270 | A | Put the driving mode switch to EFFORT mode                                   |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10271 | A | Press button 30S2 to activate the reduced power mode and maintain it         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10272 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2reducedpowerr1 = 1.0           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10273 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc2reducedlampr1 = 1.0            |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10274 | A | Release the button 30S2 and press it again to de-activate reduced power mode |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10275 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc2reducedlampr1 = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10276 | I | It not possible to activate reduced power in depot or coupling mode          |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10277 | A | Put the driving mode switch to DEPOT mode                                    |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10278 | A | Press button 30S2 to activate the reduced power mode and maintain it         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10279 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc2reducedlampr1 = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10280 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2reducedpowerr1 = 1.0           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10281 | A | Release the button 30S2                                                      |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10282 | A | Put the driving mode switch to COUPLING mode                                 |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10283 | A | Press button 30S2 to activate the reduced power mode and maintain it         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10284 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2reducedpowerr1 = 1.0           |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10285 | R | Read Defined Variable [TT]<br>(MPU1)lo_drc_tc2reducedlampr1 = 0.0            |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10286 | A | Release the button 30S2                                                      |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                          |  |    |   |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10287 | I | Master Controller/ No Brake                                              |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10288 | I | The direction selector switch 30A1.S2 must be in NEUTRAL position        |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10289 | I | The Master controller of Traction/Brake should be on OFF position        |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10290 | I | Emergency Brake must be applied                                          |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10291 | I | All doors should be closed                                               |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10292 | I | The Traction Interlock Override Switch 31S1 should be in NORMAL position |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10293 | R | LED 31H1 is OFF on the alarm module                                      |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10294 | R | LED 44H4 is "ON" on the alarm module                                     |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10295 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                    |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10296 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                    |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10297 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                   |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10298 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                   |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10299 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                   |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10300 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                   |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10301 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 1.0                     |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10302 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 1.0                     |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10303 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 1.0                    |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10304 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 1.0                    |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                           |  |    |      |                                          |       |
|-------|---|---------------------------------------------------------------------------|--|----|------|------------------------------------------|-------|
| 10305 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10306 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10307 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch1 :<br>5479<= x <= 6369  |  | OK | 6000 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10308 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch2 :<br>5479<= x <= 6369  |  | OK | 5984 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10309 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr1 = 0.0           |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10310 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr2 = 0.0           |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10311 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr1 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10312 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr2 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10313 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker1 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10314 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker2 = 0.0             |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10315 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker1 =<br>0.0 |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10316 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker2 =<br>0.0 |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10317 | A | Put the Direction selector switch 30A1.S2<br>in FORWARD position          |  | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10318 | I | No emergency brake is applied                                             |  | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10319 | R | LED 44H4 is OFF on the alarm module                                       |  | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10320 | R | LED 31H1 is "ON" on the alarm module                                      |  | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10321 | R | Relay 31K1 and 31K2 are energized                                         |  | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10322 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                     |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |



|       |   |                                                                          |  |    |      |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|------|------------------------------------------|-------|
| 10323 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                    |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10324 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10325 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10326 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10327 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10328 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10329 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10330 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10331 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10332 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10333 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10334 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch1 :<br>5479<= x <= 6369 |  | OK | 6000 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10335 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch2 :<br>5479<= x <= 6369 |  | OK | 5984 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10336 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr1 = 0.0          |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10337 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr2 = 0.0          |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10338 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr1 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10339 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr2 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10340 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker1 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                                              |  |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10341 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker2 = 0.0                                |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10342 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker1 = 0.0                       |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10343 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker2 = 0.0                       |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10344 | I | For safety purposes ENSURE that NO one is working NEAR, OUTSIDE or on the DOORS of the Train |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10345 | A | Press Automatic Start Button to Drop the Pantographs                                         |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10346 | A | Timer 15.0 S                                                                                 |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10347 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m1pantorisedr1 = 0.0                              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10348 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m1pantorisedr2 = 0.0                              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10349 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m2pantorisedr1 = 0.0                              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10350 | R | Read Defined Variable [TT]<br>(MPU1)li_pnt_m2pantorisedr2 = 0.0                              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10351 | A | Put the Master controller of Traction/Brake in 100% TRACTION position                        |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10352 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 1.0                                        |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10353 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 1.0                                        |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10354 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 1.0                                       |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10355 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 1.0                                       |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10356 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 1.0                                       |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10357 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 1.0                                       |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10358 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 1.0                                         |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                            |  |    |       |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10359 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 1.0                       |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10360 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 1.0                      |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10361 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 1.0                      |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10362 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 1.0                      |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10363 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 1.0                      |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10364 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch1 :<br>29183<= x <= 31102 |  | OK | 30928 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10365 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch2 :<br>29183<= x <= 31102 |  | OK | 30848 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10366 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr1 = 1.0            |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10367 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr2 = 1.0            |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10368 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr1 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10369 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr2 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10370 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker1 = 0.0              |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10371 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker2 = 0.0              |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10372 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker1 = 0.0     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10373 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker2 = 0.0     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10374 | A | Put the Master controller of<br>Traction/Brake in OFF position             |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10375 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10376 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                          |  |    |      |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|------|------------------------------------------|-------|
| 10377 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10378 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10379 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10380 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                   |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10381 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10382 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 1.0                     |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10383 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10384 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10385 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10386 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 1.0                    |  | OK | 1    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10387 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch1 :<br>5479<= x <= 6369 |  | OK | 6016 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10388 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch2 :<br>5479<= x <= 6369 |  | OK | 5984 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10389 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr1 = 0.0          |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10390 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr2 = 0.0          |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10391 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr1 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10392 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr2 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10393 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker1 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10394 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker2 = 0.0            |  | OK | 0    | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                            |  |    |       |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10395 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker1 = 0.0     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10396 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker2 = 0.0     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10397 | A | Put the Master controller of<br>Traction/Brake in 100% BRAKE position      |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10398 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10399 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10400 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10401 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10402 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10403 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10404 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 0.0                       |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10405 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 0.0                       |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10406 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10407 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10408 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10409 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10410 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch1 :<br>29183<= x <= 31102 |  | OK | 30928 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10411 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch2 :<br>29183<= x <= 31102 |  | OK | 30848 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10412 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctrackr1 = 0.0              |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                               |  |    |   |                                          |       |
|-------|---|-------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10413 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractionr2 = 0.0              |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10414 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr1 = 1.0                 |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10415 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr2 = 1.0                 |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10416 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker1 = 1.0                 |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10417 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker2 = 1.0                 |  | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10418 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker1 = 0.0        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10419 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker2 = 0.0        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10420 | A | Put the Master controller of<br>Traction/Brake in EMERGENCY BRAKE<br>position |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10421 | R | Read Defined Variable [TT]<br>(BCU1)Li_Traction = 0.0                         |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10422 | R | Read Defined Variable [TT]<br>(BCU2)Li_Traction = 0.0                         |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10423 | R | Read Defined Variable [TT]<br>(TBCU1)LI_TRACTION = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10424 | R | Read Defined Variable [TT]<br>(TBCU2)LI_TRACTION = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10425 | R | Read Defined Variable [TT]<br>(TBCU3)LI_TRACTION = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10426 | R | Read Defined Variable [TT]<br>(TBCU4)LI_TRACTION = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10427 | R | Read Defined Variable [TT]<br>(BCU1)Li_noBrake = 0.0                          |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10428 | R | Read Defined Variable [TT]<br>(BCU2)Li_noBrake = 0.0                          |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10429 | R | Read Defined Variable [TT]<br>(TBCU1)LI_NOBRAKE = 0.0                         |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10430 | R | Read Defined Variable [TT]<br>(TBCU2)LI_NOBRAKE = 0.0                         |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                            |  |    |       |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10431 | R | Read Defined Variable [TT]<br>(TBCU3)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10432 | R | Read Defined Variable [TT]<br>(TBCU4)LI_NOBRAKE = 0.0                      |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10433 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch1 :<br>29183<= x <= 31102 |  | OK | 30928 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10434 | R | Read Min/Max [TT]<br>(MPU1)ai_drc_tc2mcpositionch2 :<br>29183<= x <= 31102 |  | OK | 30848 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10435 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr1 = 0.0            |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10436 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mctractonr2 = 0.0            |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10437 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr1 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10438 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcnoastr2 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10439 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker1 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10440 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcbraker2 = 1.0              |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10441 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker1 =<br>1.0  |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10442 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2mcemergencybraker2 =<br>1.0  |  | OK | 1     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10443 | A | Put the Master controller of<br>Traction/Brake in OFF position             |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10444 | A | Put the direction switch to NEUTRAL<br>position                            |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10445 | A | Close HSCB using button 22S11                                              |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10446 | I | End of Test                                                                |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|



## Section 14 – Holding and Parking Brake

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### 14.1 Instructions list

### 14.1.1 Holding and Parking Brake

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                              | File | Result status | Result value | Operator                             | Vehicle |
|-------|------|------------------------------------------------------------------------------------------|------|---------------|--------------|--------------------------------------|---------|
| 10001 | I    | Parking brake SPP= 045                                                                   |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                       |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10003 | I    | Train must be properly scotched with sufficient scotch blocked to prevent it from moving |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10004 | I    | Automatic parking brake application                                                      |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10005 | I    | Train in LV ready with active cab on TC1                                                 |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10006 | A    | Release parking brake using the switch 45S1                                              |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10007 | R    | Verify on the DDU that all cars have parking brake released                              |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10008 | A    | Force [TT]<br>(MPU1)lo_air_tc1compenabler1 = 0.0                                         |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10009 | A    | Force [TT]<br>(MPU1)lo_air_tc1compenabler2 = 0.0                                         |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10010 | A    | Force [TT]<br>(MPU1)lo_air_tc2compenabler1 = 0.0                                         |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10011 | A    | Force [TT]<br>(MPU1)lo_air_tc2compenabler2 = 0.0                                         |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10012 | A    | Drain the air from the main pipe until it reaches 0bar                                   |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10013 | R    | Main pipe pressure is 0bar on the Pneumatic indicator                                    |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10014 | R    | Verify on the DDU that all cars have parking brake applied                               |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10015 | R    | Lamp 45H2 is "ON" on the alarm module                                                    |      | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |
| 10016 | R    | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakerelease = 0.0                         |      | OK            | 0            | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train   |

|       |   |                                                                  |  |    |   |                                      |       |
|-------|---|------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10017 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakerelease = 0.0 |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10018 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakerelease = 0.0  |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10019 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeRelease = 0.0  |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10020 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakerelease = 0.0 |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10021 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakerelease = 0.0 |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10022 | R | Read Defined Variable [TT]<br>(MPU1)tbcu1_li_pbrake_stat = 1.0   |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_pbrake_stat = 1.0   |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_pbrake_stat = 1.0   |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10025 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_pbrake_stat = 1.0   |  | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeIsolDC = 0.0   |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakeisoldc = 0.0  |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakeisoldc = 0.0  |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10029 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakeisoldc = 0.0   |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10030 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakeisoldc = 0.0  |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakeisoldc = 0.0  |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(BCU1)LI_PARK_BR_DC = 0.0          |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>(BCU2)LI_PARK_BR_DC = 0.0          |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |
| 10034 | R | Read Defined Variable [TT]<br>(TBCU1)LI_PARK_BR_RELEASE = 0.0    |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025 | Train |

|       |   |                                                                                               |  |    |   |                                                      |       |
|-------|---|-----------------------------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT]<br>(TBCU2)LI_PARK_BR_DC = 0.0                                      |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025                 | Train |
| 10036 | R | Read Defined Variable [TT]<br>(TBCU3)LI_PARK_BR_DC = 0.0                                      |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025                 | Train |
| 10037 | R | Read Defined Variable [TT]<br>(TBCU4)LI_PARK_BR_DC = 0.0                                      |  | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025                 | Train |
| 10038 | A | Release [TT]<br>(MPU1)lo_air_tc1compenabler1                                                  |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025                 | Train |
| 10039 | A | Release [TT]<br>(MPU1)lo_air_tc1compenabler2                                                  |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025                 | Train |
| 10040 | A | Release [TT]<br>(MPU1)lo_air_tc2compenabler1                                                  |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025                 | Train |
| 10041 | A | Release [TT]<br>(MPU1)lo_air_tc2compenabler2                                                  |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025                 | Train |
| 10042 | A | Press the automatic start button 20S1                                                         |  | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025                 | Train |
| 10043 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc1compenabler1 = 1.0                              |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)lo_air_tc2compenabler1 = 1.0                              |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10045 | R | After 10 minutes, the air in the main pipe<br>is 10bar +/-0.2bar                              |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10046 | A | Turn the switch 45S1 to release parking<br>brake                                              |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10047 | R | Lamp 45H2 is OFF on the alarm module                                                          |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10048 | I | Parking brake is released in all cars                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10049 | R | Lamp 45H2 is OFF on the alarm module                                                          |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10050 | R | On the Driver's event list, there is no<br>message reporting parking brake release<br>failure |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                  |    |   |                                                      |       |
|-------|---|------------------------------------------------------------------|----|---|------------------------------------------------------|-------|
| 10051 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakerelease = 1.0 | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10052 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakerelease = 1.0 | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10053 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakerelease = 1.0  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10054 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeRelease = 1.0  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10055 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakerelease = 1.0 | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10056 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakerelease = 1.0 | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10057 | R | Read Defined Variable [TT]<br>(MPU1)tbcu1_li_pbrake_stat = 0.0   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10058 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_pbrake_stat = 0.0   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10059 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_pbrake_stat = 0.0   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10060 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_pbrake_stat = 0.0   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10061 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeIsolDC = 0.0   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10062 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakeisoldc = 0.0  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10063 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakeisoldc = 0.0  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10064 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakeisoldc = 0.0   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

|       |   |                                                                                                                       |  |    |       |                                                      |       |
|-------|---|-----------------------------------------------------------------------------------------------------------------------|--|----|-------|------------------------------------------------------|-------|
| 10065 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakeisoldc = 0.0                                                       |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10066 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakeisoldc = 0.0                                                       |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10067 | R | Read Defined Variable [TT]<br>(BCU1)LI_PARK_BR_DC = 0.0                                                               |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10068 | R | Read Defined Variable [TT]<br>(BCU2)LI_PARK_BR_DC = 0.0                                                               |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10069 | R | Read Defined Variable [TT]<br>(TBCU1)LI_PARK_BR_DC = 0.0                                                              |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10070 | R | Read Defined Variable [TT]<br>(TBCU2)LI_PARK_BR_DC = 0.0                                                              |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10071 | R | Read Defined Variable [TT]<br>(TBCU3)LI_PARK_BR_DC = 0.0                                                              |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10072 | R | Read Defined Variable [TT]<br>(TBCU4)LI_PARK_BR_DC = 0.0                                                              |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10073 | I | Remote parking brake application TC1                                                                                  |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10074 | A | Turn the switch 45S1 to parking brake<br>release                                                                      |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10075 | R | Lamp 45H2 is OFF on the alarm module                                                                                  |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10076 | R | Measure the pressure of the test point<br>C1.11 on TC1, test point must be set to 6<br>barRead Undefined Value : x () |  | OK | 5.65  | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10077 | R | Measure the pressure of the test point<br>C2.11 on M4, test point must be set to 6<br>barRead Undefined Value : x ()  |  | OK | 5.94  | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10078 | R | Measure the pressure of the test point<br>C2.11 on M1, test point must be set to 6<br>barRead Undefined Value : x ()  |  | OK | 6.029 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |

|       |   |                                                                                                                     |  |    |       |                                                      |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------|--|----|-------|------------------------------------------------------|-------|
| 10079 | R | Measure the pressure of the test point C2.11 on M2, test point must be set to 6 bar<br>Read Undefined Value : x ()  |  | OK | 6.078 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10080 | R | Measure the pressure of the test point C2.11 on M3, test point must be set to 6 bar<br>Read Undefined Value : x ()  |  | OK | 5.748 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10081 | R | Measure the pressure of the test point C1.11 on TC2, test point must be set to 6 bar<br>Read Undefined Value : x () |  | OK | 5.885 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10082 | A | Turn the switch 45S1 to apply parking brake                                                                         |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10083 | R | Lamp 45H2 is ON on the alarm module                                                                                 |  | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10084 | R | Measure the pressure of the test point C1.11 on TC1, test point must below 4.8 bar<br>Result Max : x <= 5 (Bar)     |  | OK | 1.586 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10085 | R | Measure the pressure of the test point C1.11 on M4, test point must below 4.8 bar<br>Result Max : x <= 5 (Bar)      |  | OK | 1.976 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10086 | R | Measure the pressure of the test point C2.11 on M1, test point must below 4.8 bar<br>Result Max : x <= 5 (Bar)      |  | OK | 2.424 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10087 | R | Measure the pressure of the test point C2.11 on M2, test point must below 4.8 bar<br>Result Max : x <= 5 (Bar)      |  | OK | 2.184 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10088 | R | Measure the pressure of the test point C2.11 on M3, test point must below 4.8 bar<br>Result Max : x <= 5 (Bar)      |  | OK | 2.146 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10089 | R | Measure the pressure of the test point C1.11 on TC2, test point must below 4.8 bar<br>Result Max : x <= 5 (Bar)     |  | OK | 1.95  | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10090 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakerelease = 0.0                                                    |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10091 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakerelease = 0.0                                                    |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10092 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakerelease = 0.0                                                     |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeRelease = 0.0                                                     |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakerelease = 0.0                                                    |  | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10095 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakerelease = 0.0 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10096 | R | Read Defined Variable [TT]<br>(MPU1)tbcu1_li_pbrake_stat = 1.0   |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10097 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_pbrake_stat = 1.0   |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_pbrake_stat = 1.0   |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10099 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_pbrake_stat = 1.0   |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10100 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeIsolDC = 0.0   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10101 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakeisolDC = 0.0  |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakeisolDC = 0.0  |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10103 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakeisolDC = 0.0   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10104 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakeisolDC = 0.0  |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10105 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakeisolDC = 0.0  |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT]<br>(BCU1)LI_PARK_BR_DC = 0.0          |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10107 | R | Read Defined Variable [TT]<br>(BCU2)LI_PARK_BR_DC = 0.0          |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10108 | R | Read Defined Variable [TT]<br>(TBCU1)LI_PARK_BR_DC = 0.0         |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |



|       |   |                                                                                                                                   |  |    |   |                                                      |       |
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| 10109 | R | Read Defined Variable [TT]<br>(TBCU2)LI_PARK_BR_DC = 0.0                                                                          |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10110 | R | Read Defined Variable [TT]<br>(TBCU3)LI_PARK_BR_DC = 0.0                                                                          |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10111 | R | Read Defined Variable [TT]<br>(TBCU4)LI_PARK_BR_DC = 0.0                                                                          |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10112 | I | Parking brake manual isolation                                                                                                    |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10113 | I | TC1                                                                                                                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10114 | A | Put the switch C1.3.2 in ISOLATION<br>position on TC1                                                                             |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10115 | R | Read Defined Variable [TT]<br>(BCU1)LI_PARK_BR_RELEASE = 0.0                                                                      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10116 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_tc1parkbrakeisol = 1.0                                                                 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10117 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakeisoldc = 1.0                                                                    |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10118 | R | Read Defined Variable [TT]<br>(BCU1)LI_PARK_BR_DC = 1.0                                                                           |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10119 | A | Put the switch C1.3.2 in NORMAL<br>position on TC1                                                                                |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10120 | R | Read Defined Variable [TT]<br>(BCU1)LI_PARK_BR_RELEASE = 0.0                                                                      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10121 | A | Pull the parking brake manual lever of<br>both bogies( a click sound must be heard<br>to indicate parking brake lever is working) |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10122 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_tc1parkbrakeisol = 0.0                                                                 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10123 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakeisoldc = 0.0                                                             |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10124 | R | Read Defined Variable [TT]<br>(BCU1)LI_PARK_BR_DC = 0.0                                                                    |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10125 | I | M4                                                                                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10126 | A | Put the switch C2.3.2 for in ISOLATION position                                                                            |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10127 | R | Read Defined Variable [TT]<br>(TBCU4)LI_PARK_BR_RELEASE = 0.0                                                              |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10128 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_m4parkbrakeisol = 1.0                                                           |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10129 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakeisoldc = 1.0                                                            |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10130 | R | Read Defined Variable [TT]<br>(TBCU4)LI_PARK_BR_DC = 1.0                                                                   |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10131 | A | Put the switch C2.3.2 in NORMAL position on M4                                                                             |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10132 | R | Read Defined Variable [TT]<br>(TBCU4)LI_PARK_BR_RELEASE = 0.0                                                              |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10133 | R | Verify on the DDU that parking brake is still released                                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10134 | A | Pull the parking brake manual lever of both bogies( a click sound must be heard to indicate parking brake lever is working |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10135 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_m4parkbrakeisol = 0.0                                                           |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10136 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakeisoldc = 0.0                                                            |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10137 | R | Read Defined Variable [TT]<br>(TBCU4)LI_PARK_BR_DC = 0.0                                                                   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10138 | I | M1                                                                                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10139 | A | Put the switch C2.3.2 for in ISOLATION position                                                                            |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10140 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_m1parkbrakeisol = 1.0                                                           |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10141 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakeisoldc = 1.0                                                            |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10142 | R | Read Defined Variable [TT]<br>(TBCU1)LI_PARK_BR_DC = 1.0                                                                   |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10143 | A | Put the switch C2.3.2 in NORMAL position on M1                                                                             |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10144 | A | Pull the parking brake manual lever of both bogies( a click sound must be heard to indicate parking brake lever is working |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10145 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_m1parkbrakeisol = 0.0                                                           |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10146 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakeisoldc = 0.0                                                            |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10147 | R | Read Defined Variable [TT]<br>(TBCU1)LI_PARK_BR_DC = 0.0                                                                   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10148 | I | M2                                                                                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10149 | A | Put the switch C2.3.2 in ISOLATION position on M2                                                                          |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10150 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_m2parkbrakeisol = 1.0                                                           |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10151 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakeisoldc = 1.0                                                                  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10152 | R | Read Defined Variable [TT]<br>(TBCU2)LI_PARK_BR_DC = 1.0                                                                         | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10153 | A | Put the cock C2.3.2 for in NORMAL<br>position on M2                                                                              | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10154 | A | Pull the parking brake manual lever of<br>both bogies( a click sound must be heard<br>to indicate parking brake lever is working | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10155 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_m2parkbrakeisol = 0.0                                                                 | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10156 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakeisoldc = 0.0                                                                  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10157 | R | Read Defined Variable [TT]<br>(TBCU2)LI_PARK_BR_DC = 0.0                                                                         | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10158 | I | M3                                                                                                                               | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10159 | A | Put the switch C2.3.2 in ISOLATION<br>position on M3                                                                             | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10160 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_m3parkbrakeisol = 1.0                                                                 | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10161 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakeisoldc = 1.0                                                                  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10162 | R | Read Defined Variable [TT]<br>(TBCU3)LI_PARK_BR_DC = 1.0                                                                         | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10163 | A | Put the cock C2.3.2 for in NORMAL<br>position on M3                                                                              | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10164 | A | Pull the parking brake manual lever of<br>both bogies( a click sound must be heard<br>to indicate parking brake lever is working | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10165 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_m3parkbrakeisol = 0.0                                                                  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10166 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakeisoldc = 0.0                                                                   | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10167 | I | TC2                                                                                                                               | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10168 | A | Put the switch C1.3.2 in ISOLATION<br>position on TC2                                                                             | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10169 | R | Read Defined Variable [TT]<br>(TBCU3)LI_PARK_BR_DC = 0.0                                                                          | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10170 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakelsolDC = 1.0                                                                    | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10171 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_tc2parkbrakeisol = 1.0                                                                 | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10172 | R | Read Defined Variable [TT]<br>(BCU2)LI_PARK_BR_DC = 1.0                                                                           | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10173 | A | Put the switch C1.3.2 in NORMAL<br>position on TC2                                                                                | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10174 | R | Read Defined Variable [TT]<br>(BCU2)LI_PARK_BR_RELEASE = 0.0                                                                      | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10175 | A | Pull the parking brake manual lever of<br>both bogies( a click sound must be heard<br>to indicate parking brake lever is working) | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10176 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakelsolDC = 0.0                                                                    | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10177 | R | Read Defined Variable [TT]<br>(MPU1)li_pbk_tc2parkbrakeisol = 0.0                                                                 | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10178 | I | Remote parking brake application TC2                                                                                              | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |

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| 10179 | R | Read Defined Variable [TT]<br>(BCU2)LI_PARK_BR_DC = 0.0                                                                    | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10180 | A | Switch active cab to TC2                                                                                                   | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10181 | A | Turn the switch 45S1 to apply parking<br>brake                                                                             | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10182 | R | Lamp 45H2 is ON on the alarm module                                                                                        | OK |       | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10183 | R | Measure the pressure of the test point<br>C1.11 on TC1, test point must be set to<br>4.8 barRead Undefined Value : x (Bar) | OK | 1.586 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10184 | R | Measure the pressure of the test point<br>C2.11 on M4, test point must be set to 4.8<br>barRead Undefined Value : x (Bar)  | OK | 1.976 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10185 | R | Measure the pressure of the test point<br>C2.11 on M1, test point must be set to 4.8<br>barRead Undefined Value : x (Bar)  | OK | 2.424 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10186 | R | Measure the pressure of the test point<br>C2.11 on M2, test point must be set to 4.8<br>barRead Undefined Value : x (Bar)  | OK | 2.184 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10187 | R | Measure the pressure of the test point<br>C2.11 on M3, test point must be set to 4.8<br>barRead Undefined Value : x (Bar)  | OK | 2.146 | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10188 | R | Measure the pressure of the test point<br>C1.11 on TC2, test point must be set to<br>4.8 barRead Undefined Value : x (Bar) | OK | 1.95  | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |
| 10189 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakerelease = 0.0                                                           | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10190 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakerelease = 0.0                                                           | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10191 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakerelease = 0.0                                                            | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10192 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeRelease = 0.0                                                            | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10193 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakerelease = 0.0                                                           | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10194 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakerelease = 0.0                                                           | OK | 0     | Hlawulani Nick<br>Mabundzane<br>418320               | Train |

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|       |   |                                                                                               |  |    |   | 18.11.2025                                           |       |
| 10195 | R | Read Defined Variable [TT]<br>(MPU1)tbcu1_li_pbrake_stat = 1.0                                |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10196 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_pbrake_stat = 1.0                                |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10197 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_pbrake_stat = 1.0                                |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10198 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_pbrake_stat = 1.0                                |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10199 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeIsolDC = 0.0                                |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10200 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakeisolDC = 0.0                               |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10201 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakeisolDC = 0.0                               |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10202 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakeisolDC = 0.0                                |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10203 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakeisolDC = 0.0                               |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10204 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakeisolDC = 0.0                               |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10205 | A | Turn the switch 45S1 to release parking<br>brake                                              |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10206 | R | Lamp 45H2 is OFF on the alarm module                                                          |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10207 | I | Parking brake is released in all cars                                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10208 | R | On the Driver's event list, there is no<br>message reporting parking brake release<br>failure |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320               | Train |

|       |   |                                                                  |  |    |   |                                                      |       |
|-------|---|------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
|       |   |                                                                  |  |    |   | 18.11.2025                                           |       |
| 10209 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakerelease = 1.0 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10210 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakerelease = 1.0 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10211 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakerelease = 1.0  |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10212 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeRelease = 1.0  |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10213 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakerelease = 1.0 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10214 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakerelease = 1.0 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10215 | R | Read Defined Variable [TT]<br>(MPU1)tbcu1_li_pbrake_stat = 0.0   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10216 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_li_pbrake_stat = 0.0   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10217 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_li_pbrake_stat = 0.0   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10218 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_li_pbrake_stat = 0.0   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10219 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ParkBrakeIsolDC = 0.0   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10220 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_parkbrakeisoldc = 0.0  |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10221 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_parkbrakeisoldc = 0.0  |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10222 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_parkbrakeisoldc = 0.0   |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320               | Train |



|       |   |                                                                 |  |    |   |                                                      |       |
|-------|---|-----------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
|       |   |                                                                 |  |    |   | 18.11.2025                                           |       |
| 10223 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_parkbrakeisoldc = 0.0 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10224 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_parkbrakeisoldc = 0.0 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10225 | I | End of Test                                                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025             | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 15 – Service Brake

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### 15.1 Instructions list

### 15.1.1 Service Brake

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                           | File | Result status | Result value | Operator                                 | Vehicle |
|-------|------|-----------------------------------------------------------------------------------------------------------------------|------|---------------|--------------|------------------------------------------|---------|
| 10001 | I    | Service Brake SPP=040 SBK                                                                                             |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                                                    |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10003 | I    | Emergency brake button 44S1 is released in both TC1 and TC2                                                           |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10004 | I    | Pressure on the main pipe should be higher than 7 bar                                                                 |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10005 | I    | The ERTMS switch 62S1 is in ISOLATION position in both TC1 and TC2                                                    |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10006 | I    | The Deadman switch 60S1 is in OVERRIDE position in both TC1 and TC2                                                   |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10007 | I    | Driving mode should be selected as COUPLE/WASH in both TC1 and TC2                                                    |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10008 | I    | Train has sufficient scotch blocks to prevent it from moving                                                          |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10009 | I    | Ensure that the propulsion system is inhibited to prevent movement when the master controller is in TRACTION position |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10010 | I    | Start of Test                                                                                                         |      | OK            |              | Sthabile Dlamini<br>418538<br>17.11.2025 | Train   |
| 10011 | I    | Brake application / release                                                                                           |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025     | Train   |
| 10012 | A    | Activate the cab on TC1                                                                                               |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025     | Train   |
| 10013 | I    | To begin test, the EPC life signal must be live                                                                       |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025     | Train   |
| 10014 | R    | Read Defined Variable [TT]<br>(BCU1)LI_REGULATOR_STAT = 1.0                                                           |      | OK            | 1            | TIVANI Angel<br>542257<br>18.11.2025     | Train   |
| 10015 | R    | Read Defined Variable [TT]<br>(BCU2)LI_REGULATOR_STAT = 1.0                                                           |      | OK            | 1            | TIVANI Angel<br>542257<br>18.11.2025     | Train   |
| 10016 | R    | Read Defined Variable [TT]<br>(TBCU1)LI_REGULATOR_STAT = 1.0                                                          |      | OK            | 1            | TIVANI Angel<br>542257<br>18.11.2025     | Train   |

|       |   |                                                                                                                                                                                                                                                                                                                                    |  |    |       |                                      |       |
|-------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|-------|--------------------------------------|-------|
| 10017 | R | Read Defined Variable [TT]<br>(TBCU2)LI_REGULATOR_STAT = 1.0                                                                                                                                                                                                                                                                       |  | OK | 1     | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10018 | R | Read Defined Variable [TT]<br>(TBCU3)LI_REGULATOR_STAT = 1.0                                                                                                                                                                                                                                                                       |  | OK | 1     | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10019 | R | Read Defined Variable [TT]<br>(TBCU4)LI_REGULATOR_STAT = 1.0                                                                                                                                                                                                                                                                       |  | OK | 1     | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10020 | A | Put the direction selector switch in<br>FORWARD position                                                                                                                                                                                                                                                                           |  | OK |       | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10021 | R | Emergency brake is released                                                                                                                                                                                                                                                                                                        |  | OK |       | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10022 | R | LED 40H1 is OFF on the alarm module                                                                                                                                                                                                                                                                                                |  | OK |       | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10023 | A | Move slowly the master controller from<br>OFF position to maximum brake position<br>and check the following items<br><br>- Variables on brake software as<br>demanded below.                                                                                                                                                       |  | OK |       | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10024 | I | The pressure measured below can have<br>the values changed after the brake<br>adjustment during performance test. The<br>brake pressure should increase with<br>respect to the master controller position<br>and there should be no sudden jumps in<br>the pressure when observing the PWM<br>signal on the DDU maintenance screen |  | OK |       | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10025 | I | All the brake discs apply pressure on the<br>wheels, it is necessary to go bogie by<br>bogie to physically check if the brake pads<br>are in contact with the wheel                                                                                                                                                                |  | OK |       | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10026 | R | SBTP TC1Result Min/Max : 1.27<= x <=<br>1.67 (Bar)                                                                                                                                                                                                                                                                                 |  | OK | 1.407 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10027 | R | Brake discs apply pressure on car TC1                                                                                                                                                                                                                                                                                              |  | OK |       | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10028 | R | SBTP M4Result Min/Max : 1.29<= x <=<br>1.69 (Bar)                                                                                                                                                                                                                                                                                  |  | OK | 1.376 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10029 | R | Brake discs apply pressure on car M4                                                                                                                                                                                                                                                                                               |  | OK |       | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10030 | R | SBTP M1Result Min/Max : 1.29<= x <=<br>1.69 (Bar)                                                                                                                                                                                                                                                                                  |  | OK | 1.425 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10031 | R | Brake discs apply pressure on car M1                                                                                                                                                                                                                                                                                               |  | OK |       | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10032 | R | SBTP M2Result Min/Max : 1.29<= x <=<br>1.69 (Bar)                                                                                                                                                                                                                                                                                  |  | OK | 1.29  | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                              |  |    |        |                                      |       |
|-------|---|------------------------------------------------------------------------------------------------------------------------------|--|----|--------|--------------------------------------|-------|
| 10033 | R | Brake discs apply pressure on car M2                                                                                         |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10034 | R | SBTP M3Result Min/Max : 1.29<= x <= 1.69 (Bar)                                                                               |  | OK | 1.4    | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10035 | R | Brake discs apply pressure on car M3                                                                                         |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10036 | R | SBTP TC2Result Min/Max : 1.27<= x <= 1.67 (Bar)                                                                              |  | OK | 1.288  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10037 | R | Brake discs apply pressure on car TC2                                                                                        |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10038 | I | The pressure measured below should be approximately equal to what is observed on the PWM signa on the DDU maintenance screen |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10039 | R | Read Min/Max [TT]<br>(MPU1)bcu1_bcubpipepress : 127<= x <= 167                                                               |  | OK | 142.75 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10040 | R | Read Min/Max [TT]<br>(MPU1)BCU2_BcuBPipePress : 127<= x <= 167                                                               |  | OK | 142.6  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10041 | R | Read Min/Max [TT]<br>(MPU1)TBCU1_bcubpipepress : 129<= x <= 169                                                              |  | OK | 142.55 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10042 | R | Read Min/Max [TT]<br>(MPU1)tbcu2_bcubpipepress : 129<= x <= 169                                                              |  | OK | 164.79 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10043 | R | Read Min/Max [TT]<br>(MPU1)tbcu3_bcubpipepress : 129<= x <= 169                                                              |  | OK | 167.73 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10044 | R | Read Min/Max [TT]<br>(MPU1)tbcu4_bcubpipepress : 129<= x <= 169                                                              |  | OK | 168.71 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10045 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0                                                                  |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10046 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0                                                                  |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10047 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                                                                  |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10048 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0                                                                  |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10049 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                   |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10050 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                   |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                                                                                      |  |    |        |                                              |       |
|-------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--------|----------------------------------------------|-------|
| 10051 | R | Read Defined Variable [TT]<br>(BCU1)LI_BRAKE_NOT_APPLIED = 0.0                                                                                                                                       |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10052 | R | Read Defined Variable [TT]<br>(BCU2)LI_BRAKE_NOT_APPLIED = 0.0                                                                                                                                       |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10053 | R | Check the pressure on the brake pressure gauge on TC1Read Undefined Value : x ()                                                                                                                     |  | OK | 0      | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10054 | R | Check the pressure on the brake pressure gauge on TC2Read Undefined Value : x ()                                                                                                                     |  | OK | 0      | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10055 | I | The pressure showed on pressure gauge (driver desk) is the same as the measured on the test point BCTP of the car TC.                                                                                |  | OK |        | Sizwe Sibanyoni<br>484647<br>20.11.2025      | Train |
| 10056 | A | Move slowly the master controller from 100% BRAKE position to OFF position. Observe the PWM behaviour of the brake cylinder pressure. it may be necessary to repeat the test until you are satisfied |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10057 | I | There must not have sudden release of pressure while the master controller is slowly moved to OFF position.                                                                                          |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10058 | R | Pressure on BCTP (Car TC) = 0bar (+/- 0,2bar)Read Undefined Value : x ()                                                                                                                             |  | OK | 0.064  | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10059 | R | Pressure on SBTP (all M cars) = 0bar (+/- 0,2bar)Read Undefined Value : x ()                                                                                                                         |  | OK | 0.026  | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10060 | R | Pressure on BCTP (all M cars) = 0bar (+/- 0,2bar)Read Undefined Value : x ()                                                                                                                         |  | OK | 0.002  | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10061 | R | Pressure on SBTP all TC cars) = 0bar (+/- 0,2bar)Read Undefined Value : x ()                                                                                                                         |  | OK | 0.0034 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10062 | I | It is necessary to go bogie by bogie to verify that brake pads are not in contact with the wheels                                                                                                    |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10063 | R | Brake discs do not apply pressure on car TC1                                                                                                                                                         |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10064 | R | Brake discs do not apply pressure on car M4                                                                                                                                                          |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10065 | R | Brake discs do not apply pressure on car M1                                                                                                                                                          |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10066 | R | Brake discs do not apply pressure on car M2                                                                                                                                                          |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10067 | R | Brake discs do not apply pressure on car M3                                                                                                                                                          |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025         | Train |

|       |   |                                                             |  |    |   |                                              |       |
|-------|---|-------------------------------------------------------------|--|----|---|----------------------------------------------|-------|
| 10068 | R | Brake discs do not apply pressure on car TC2                |  | OK |   | Paseka Ditlhakanyane<br>491468<br>19.11.2025 | Train |
| 10069 | I | Holding Brake                                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10070 | A | Put the master controller on 100% BRAKE position            |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10071 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10072 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10073 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10074 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10075 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10076 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10077 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_holdbrake = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10078 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_HoldBrake = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10079 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10080 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10081 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10082 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10083 | A | Put the master controller on OFF position                   |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10084 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025         | Train |
| 10085 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025         | Train |



|       |   |                                                             |  |    |   |                                      |       |
|-------|---|-------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10086 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10087 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10088 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 1.0  |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10089 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 1.0  |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10090 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_holdbrake = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10091 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_HoldBrake = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10092 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_holdbrake = 0.0   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_holdbrake = 0.0   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_holdbrake = 0.0   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10095 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_holdbrake = 0.0   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10096 | A | Put the driving mode switch 30S1 to<br>EFFORT position      |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10097 | A | Put the master controller on 100% BRAKE<br>position         |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10099 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10100 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10101 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10103 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                             |  |    |   |                                      |       |
|-------|---|-------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10104 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_holdbrake = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10105 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_HoldBrake = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10107 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10108 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10109 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10110 | A | Position the master controller on OFF<br>position           |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10111 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10112 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10113 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10114 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10115 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10116 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10117 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_holdbrake = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10118 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_HoldBrake = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10119 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10120 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10121 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                             |  |    |   |                                      |       |
|-------|---|-------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10122 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10123 | A | Position the driving mode switch 30S1 to<br>DEPOT position  |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10124 | A | Position the master controller on 100%<br>BRAKE position    |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10125 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10126 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10127 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10128 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10129 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10130 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10131 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_holdbrake = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10132 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_HoldBrake = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10133 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10134 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10135 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10136 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_holdbrake = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10137 | A | Position the master controller on OFF<br>position           |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10138 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10139 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_holdbrake = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                  |  |    |   |                                      |       |
|-------|---|------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10140 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_HoldBrake = 1.0         |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10141 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_holdbrake = 1.0        |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10142 | R | Read Defined Variable [TT]<br>(BCU2)LI_BRAKE_NOT_APPLIED = 0.0   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10143 | R | Read Defined Variable [TT]<br>(TBCU1)LI_BRAKE_NOT_APPLIED = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10144 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_holdbrake = 1.0        |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10145 | R | Read Defined Variable [TT]<br>(TBCU2)LI_BRAKE_NOT_APPLIED = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10146 | R | Read Defined Variable [TT]<br>(TBCU3)LI_BRAKE_NOT_APPLIED = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10147 | R | Read Defined Variable [TT]<br>(TBCU4)LI_BRAKE_NOT_APPLIED = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10148 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_holdbrake = 1.0        |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10149 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_holdbrake = 1.0        |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10150 | A | Return the driving mode switch 30S1 to<br>COUPLE / WASH position |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10151 | A | Position the master controller in 100%<br>BRAKE position         |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10152 | I | Brake isolation through the isolation cock                       |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10153 | I | TC1 service brake manual isolation                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10154 | A | Close the isolation cock C1.3.1                                  |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10155 | R | Lamp 40H2 is ON on the alarm mode for<br>EB reduced              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10156 | R | Read Defined Variable [TT]<br>(BCU1)LI_BRAKE_NOT_APPLIED = 1.0   |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10157 | A | Put the manometer test point to BCTP                             |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                    |  |    |   |                                      |       |
|-------|---|--------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10158 | R | Pressure on BCTP decreases slowly until it reaches +/- 0.2 bar     |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10159 | R | Brake discs are not in contact with wheels on TC1 bogies           |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10160 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 1.0     |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10161 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeIsolDC = 0.0     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10162 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10163 | R | Read Defined Variable [TT]<br>(BCU2)LI_BRAKE_NOT_APPLIED = 0.0     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10164 | R | Read Defined Variable [TT]<br>(TBCU1)LI_BRAKE_NOT_APPLIED = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10165 | R | Read Defined Variable [TT]<br>(BCU1)LI_BRAKE_NOT_APPLIED = 1.0     |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10166 | R | Read Defined Variable [TT]<br>(TBCU2)LI_BRAKE_NOT_APPLIED = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10167 | R | Read Defined Variable [TT]<br>(TBCU3)LI_BRAKE_NOT_APPLIED = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10168 | R | Read Defined Variable [TT]<br>(TBCU4)LI_BRAKE_NOT_APPLIED = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10169 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10170 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10171 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10172 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10173 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10174 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10175 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                                           |  |    |   |                                      |       |
|-------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10176 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0                                                                                         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10177 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0                                                                                        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10178 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0                                                                                               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10179 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0                                                                                               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10180 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                                                                                               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10181 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0                                                                                               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10182 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                                                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10183 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 1.0                                                                                                |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10184 | A | Open the isolation cock C1.3.1                                                                                                                            |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10185 | R | Lamp 40H2 is OFF on the alarm mode for<br>EB reduced                                                                                                      |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10186 | R | Read Defined Variable [TT]<br>(BCU1)LI_BRAKE_NOT_APPLIED = 0.0                                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10187 | R | Pressure measured on test point BCTP<br>increases slowly (brake reservoir) until<br>service brake pressure in TC1 until it<br>reaches 1,47bar (+/-0,2bar) |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10188 | R | Brake discs are in contact with wheels on<br>TC1 bogies                                                                                                   |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10189 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0                                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10190 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeIsolDC = 0.0                                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10191 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0                                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10192 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0                                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10193 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0                                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                              |  |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10194 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0                                                                              |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10195 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10196 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10197 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10198 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10199 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10200 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10201 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10202 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10203 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10204 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10205 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                                   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10206 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                                   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10207 | A | Remove manometer on TC1 BCTP point                                                                                                           |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10208 | I | M4 service brake manual isolation                                                                                                            |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10209 | A | Close the isolation cock C2.3.1                                                                                                              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10210 | R | Message on DDU warning the<br>maintenance/driver for repair at the end<br>of the day. IOS 886: "Mechanical Brake<br>manually isolated on M4" |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10211 | R | Lamp 40H2 is "ON" on the alarm mode<br>for EB reduced                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                               |  |    |   |                                      |       |
|-------|---|-------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10212 | A | Put manometer on M4 BCTP point                                                |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10213 | R | Pressure measured on test point BCTP decreases slowly until 0 bar (+/-0,2bar) |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10214 | R | Brake discs are not in contact with wheels on M4 bogies                       |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10215 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10216 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeisoldc = 0.0                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10217 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10218 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10219 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10220 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 1.0               |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10221 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10222 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10223 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10224 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10225 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 1.0             |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10226 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10227 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0                   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10228 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0                   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10229 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |



|       |   |                                                                                                                                            |  |    |   |                                      |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10230 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 1.0                                                                                |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10231 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                                 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10232 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                                 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10233 | A | Open the isolation cock C2.3.1                                                                                                             |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10234 | R | Lamp 40H2 is OFF for EB reduced on the alarm module                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10235 | R | Pressure measured on test point BCTP increases slowly (brake reservoir) until service brake pressure in M4 car reaches 1,49bar (+/-0,2bar) |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10236 | R | Brake discs are in contact with wheels on M4 bogies                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10237 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10238 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeIsolDC = 0.0                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10239 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10240 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10241 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10242 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10243 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0                                                                         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10244 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0                                                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10245 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0                                                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10246 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0                                                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10247 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0                                                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                              |  |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10248 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10249 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10250 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10251 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10252 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10253 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                                   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10254 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                                   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10255 | A | Remove manometer on M4 BCTP point                                                                                                            |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10256 | I | M1 service brake manual isolation                                                                                                            |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10257 | A | Close the isolation cock C2.3.1                                                                                                              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10258 | R | Message on DDU warning the<br>maintenance/driver for repair at the end<br>of the day. IOS 883: "Mechanical Brake<br>manually isolated on M1" |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10259 | R | Lamp 40H2 is ON for EB reduced on the<br>alarm module                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10260 | A | Put manometer on M1 BCTP point                                                                                                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10261 | R | Pressure measured on test point BCTP<br>decreases slowly (drain the brake<br>reservoir) until 0bar (+/-0,2bar)                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10262 | R | Brake discs are not in contact with wheels<br>on M1 bogies                                                                                   |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10263 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0                                                                               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10264 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeIsolDC = 0.0                                                                               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10265 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 1.0                                                                              |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                            |  |    |   |                                      |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10266 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10267 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10268 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10269 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0                                                                         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10270 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 1.0                                                                          |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10271 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0                                                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10272 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0                                                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10273 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0                                                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10274 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0                                                                         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10275 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 1.0                                                                                |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10276 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0                                                                                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10277 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                                                                                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10278 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0                                                                                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10279 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                                 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10280 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                                 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10281 | A | Open the isolation cock C2.3.1                                                                                                             |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10282 | R | Lamp 40H2 is OFF for EB reduced on the alarm module                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10283 | R | Pressure measured on test point BCTP increases slowly (brake reservoir) until service brake pressure in M1 car reaches 1,49bar (+/-0,2bar) |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                    |  |    |   |                                      |       |
|-------|---|--------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10284 | R | Brake discs are in contact with wheels on M1 bogies                |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10285 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10286 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeisoldc = 0.0     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10287 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10288 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10289 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10290 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10291 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10292 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10293 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10294 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10295 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10296 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10297 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10298 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10299 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10300 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10301 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                          |  |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10302 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10303 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10304 | A | Remove manometer on M1 BCTP point                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10305 | I | M2 service brake manual isolation                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10306 | A | Close the isolation cock C2.3.1                                                                          |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10307 | R | Lamp 40H2 is ON for EB reduced on the alarm module                                                       |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10308 | A | Put manometer on M2 BCTP point                                                                           |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10309 | R | Pressure measured on test point BCTP decreases slowly (drain the brake reservoir) until Obar (+/-0,2bar) |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10310 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 1.0                                          |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10311 | R | Brake discs are not in contact with wheels on M2 bogies                                                  |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10312 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10313 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeisoldc = 0.0                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10314 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10315 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 1.0                                        |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10316 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10317 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10318 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0                                       |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10319 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0                                        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                            |    |   |                                      |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------|----|---|--------------------------------------|-------|
| 10320 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0                                                                          | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10321 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0                                                                          | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10322 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0                                                                         | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10323 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0                                                                                | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10324 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 1.0                                                                                | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10325 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                                                                                | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10326 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0                                                                                | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10327 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                                 | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10328 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                                 | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10329 | A | Open the isolation cock C2.3.1                                                                                                             | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10330 | R | Lamp 40H2 is OFF for EB reduced on the alarm module                                                                                        | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10331 | R | Pressure measured on test point BCTP increases slowly (brake reservoir) until service brake pressure in M2 car reaches 1,49bar (+/-0,2bar) | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10332 | R | Brake discs are in contact with wheels on M2 bogies                                                                                        | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10333 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0                                                                             | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10334 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeIsolDC = 0.0                                                                             | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10335 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0                                                                            | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10336 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0                                                                            | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10337 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0                                                                            | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                              |  |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10338 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10339 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10340 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10341 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10342 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10343 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10344 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10345 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0                                                                                  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10346 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                                   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10347 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                                   |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10348 | A | Remove manometer on M2 BCTP point                                                                                                            |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10349 | I | M3 Service brake manual isolation                                                                                                            |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10350 | A | Close the isolation cock C2.3.1                                                                                                              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10351 | R | Message on DDU warning the<br>maintenance/driver for repair at the end<br>of the day. IOS 885: "Mechanical Brake<br>manually isolated on M3" |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10352 | R | Lamp 40H2 is ON for EB reduced on the<br>alarm module                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10353 | A | Put the manometer on the BCTP test point<br>of M3                                                                                            |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10354 | R | Pressure measured on test point BCTP<br>decreases slowly (drain the brake<br>reservoir) until 0bar (+/-0,2bar)                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10355 | R | Brake discs are not in contact with wheels<br>on M3 bogies                                                                                   |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                    |  |    |   |                                      |       |
|-------|---|--------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10356 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10357 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeIsolDC = 0.0     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10358 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10359 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10360 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 1.0    |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10361 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10362 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10363 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10364 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10365 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 1.0  |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10366 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10367 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10368 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10369 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10370 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 1.0        |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10371 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10372 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10373 | R | Read Defined Variable [TT]<br>(BCU2)LI_BRAKE_NOT_APPLIED = 0.0     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |



|       |   |                                                                                                                                            |  |    |   |                                      |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10374 | R | Read Defined Variable [TT]<br>(TBCU1)LI_BRAKE_NOT_APPLIED = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10375 | R | Read Defined Variable [TT]<br>(BCU1)LI_BRAKE_NOT_APPLIED = 0.0                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10376 | R | Read Defined Variable [TT]<br>(TBCU2)LI_BRAKE_NOT_APPLIED = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10377 | R | Read Defined Variable [TT]<br>(TBCU3)LI_BRAKE_NOT_APPLIED = 1.0                                                                            |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10378 | R | Read Defined Variable [TT]<br>(TBCU4)LI_BRAKE_NOT_APPLIED = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10379 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                                 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10380 | A | Open the isolation cock C2.3.1                                                                                                             |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10381 | R | Lamp 40H2 is OFF for EB reduced on the alarm module                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10382 | R | Pressure measured on test point BCTP increases slowly (brake reservoir) until service brake pressure in M3 car reaches 1,49bar (+/-0,2bar) |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10383 | R | Brake discs are in contact with wheels on M3 bogies                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10384 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10385 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeIsolDC = 0.0                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10386 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10387 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10388 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10389 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10390 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0                                                                         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10391 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0                                                                          |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                       |  |    |   |                                      |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10392 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0                                                                     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10393 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0                                                                     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10394 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0                                                                     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10395 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0                                                                    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10396 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10397 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10398 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10399 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10400 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10401 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10402 | A | Remove the manometer from the BCTP test point                                                                                         |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10403 | I | TC2 Service brake manual isolation                                                                                                    |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10404 | A | Close the isolation cock C1.3.1                                                                                                       |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10405 | R | Message on DDU warning the maintenance/driver for repair at the end of the day. IOS 882 : "Mechanical Brake manually isolated on TC2" |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10406 | R | Lamp 40H2 is ON for EB reduced on the alarm module                                                                                    |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10407 | A | Put manometer on BCTP test point                                                                                                      |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10408 | R | Pressure measured on test point BCTP decreases slowly (drain the brake reservoir) until 0bar (+/-0,2bar)                              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10409 | R | Brake discs are not in contact with wheels on TC2 bogies                                                                              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |

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|-------|---|--------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10410 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0     |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10411 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeIsolDC = 1.0     |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10412 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10413 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10414 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10415 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0    |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10416 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10417 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10418 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10419 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10420 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0  |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10421 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10422 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10423 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10424 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10425 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10426 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 1.0         |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10427 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

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|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10428 | A | Open the isolation cock C1.3.1                                                                                                             |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10429 | R | Lamp 40H2 is OFF for EB reduced on the alarm module                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10430 | A | Put the manometer on the BCTP point in TC2                                                                                                 |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10431 | R | Pressure measured on test point BCTP increases slowly (brake reservoir) until service brake pressure in TC car reaches 1,47bar (+/-0,2bar) |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10432 | R | Read Defined Variable [TT]<br>(BCU2)LI_BRAKE_NOT_APPLIED = 0.0                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10433 | R | Read Defined Variable [TT]<br>(TBCU1)LI_BRAKE_NOT_APPLIED = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10434 | R | Read Defined Variable [TT]<br>(BCU1)LI_BRAKE_NOT_APPLIED = 0.0                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10435 | R | Read Defined Variable [TT]<br>(TBCU2)LI_BRAKE_NOT_APPLIED = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10436 | R | Read Defined Variable [TT]<br>(TBCU3)LI_BRAKE_NOT_APPLIED = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10437 | R | Read Defined Variable [TT]<br>(TBCU4)LI_BRAKE_NOT_APPLIED = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10438 | R | Brake discs are in contact with wheels on TC2 bogies                                                                                       |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10439 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_servbrakeisoldc = 0.0                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10440 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_ServBrakeisoldc = 0.0                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10441 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10442 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10443 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10444 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_servbrakeisoldc = 0.0                                                                            |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10445 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc1servicebrakedc = 0.0                                                                         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                  |  |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10446 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1servicebrakedc = 0.0                                                                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10447 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2servicebrakedc = 0.0                                                                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10448 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3servicebrakedc = 0.0                                                                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10449 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2servicebrakedc = 0.0                                                               |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10450 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4servicebrakedc = 0.0                                                                |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10451 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_brakenotapp = 0.0                                                                      |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10452 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_brakenotapp = 0.0                                                                      |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10453 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_brakenotapp = 0.0                                                                      |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10454 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_brakenotapp = 0.0                                                                      |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10455 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BrakeNotApp = 0.0                                                                       |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10456 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_brakenotapp = 0.0                                                                       |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10457 | A | Remove the manometer from the BCTP<br>point of TC2                                                                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10458 | I | BCU Fault Test                                                                                                                   |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10459 | I | Emergency brake must be applied to force<br>the variables mentioned.<br>After forcing the variables, release<br>emergency brake. |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10460 | A | Position the master controller on OFF<br>position                                                                                |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10461 | A | Put the direction selector switch in<br>Neutral position                                                                         |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10462 | A | Force [TT] (BCU1)LO_BRK_FLT = 0.0                                                                                                |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10463 | R | Read Defined Variable [TT]<br>Li_SBK_Tc1BcuFault_B = 0                                                                           |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                             |  |    |   |                                      |       |
|-------|---|-------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10464 | A | Release [TT] (BCU1)LO_BRK_FLT                               |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10465 | R | Read Defined Variable [TT]<br>Li_SBK_Tc1BcuFault_B = 1      |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10466 | A | Force [TT] (TBCU4)LO_BRK_FLT = 0.0                          |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10467 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4bcufault = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10468 | A | Release [TT] (TBCU4)LO_BRK_FLT                              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10469 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m4bcufault = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10470 | A | Force [TT] (TBCU2)LO_BRK_FLT = 0.0                          |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10471 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2bcufault = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10472 | A | Release [TT] (TBCU2)LO_BRK_FLT                              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10473 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m2bcufault = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10474 | A | Force [TT] (TBCU1)LO_BRK_FLT = 0.0                          |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10475 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1bcufault = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10476 | A | Release [TT] (TBCU1)LO_BRK_FLT                              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10477 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m1bcufault = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10478 | A | Force [TT] (TBCU3)LO_BRK_FLT = 0.0                          |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10479 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3bcufault = 0.0 |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10480 | A | Release [TT] (TBCU3)LO_BRK_FLT                              |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10481 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_m3bcufault = 1.0 |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                                                                      |  |    |   |                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10482 | A | Force [TT] (BCU2)LO_BRK_FLT = 0.0                                                                                                                                    |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10483 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2bcufault = 0.0                                                                                                         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10484 | A | Release [TT] (BCU2)LO_BRK_FLT                                                                                                                                        |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10485 | R | Read Defined Variable [TT]<br>(MPU1)li_sbk_tc2bcufault = 1.0                                                                                                         |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10486 | I | Wheel Slide test                                                                                                                                                     |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10487 | A | On DDU from TC1 car, request the WSP test on test screen and perform the actions shown on DDU.                                                                       |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10488 | I | To request the WSP test, go to test screen and request the brake test. Perform the Parking brake test. After the parking brake test, the WSP test will be available. |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10489 | I | Safety requirement: [Prasa1-56]                                                                                                                                      |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10490 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_BcuTstOk = 0.0                                                                                                              |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10491 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_BcuTstOk = 0.0                                                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10492 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_BcuTstOk = 0.0                                                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10493 | R | Read Defined Variable [TT]<br>(MPU1)TBCU3_BcuTstOk = 0.0                                                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10494 | R | Read Defined Variable [TT]<br>(MPU1)TBCU4_BcuTstOk = 0.0                                                                                                             |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10495 | A | Force [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr1 = 1.0                                                                                                                  |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10496 | A | Force [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr2 = 0.0                                                                                                                  |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10497 | R | The visual indication of wheel slide detection (41H1) on the alarm module is ON.                                                                                     |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10498 | A | Force [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr1 = 0.0                                                                                                                  |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10499 | A | Force [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr2 = 1.0                                                                                                                  |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                   |  |    |  |                                      |       |
|-------|---|-----------------------------------------------------------------------------------|--|----|--|--------------------------------------|-------|
| 10500 | R | The visual indication of wheel slide detection (41H1) on the alarm module is ON.  |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10501 | A | Force [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr1 = 1.0                               |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10502 | A | Force [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr2 = 1.0                               |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10503 | R | The visual indication of wheel slide detection (41H1) on the alarm module is ON.  |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10504 | A | Force [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr1 = 0.0                               |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10505 | A | Force [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr2 = 0.0                               |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10506 | R | The visual indication of wheel slide detection (41H1) on the alarm module is OFF. |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10507 | A | Release [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr1                                   |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10508 | A | Release [TT]<br>(MPU1)lo_sbk_tc1slipslidelampr2                                   |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10509 | I | End of Test                                                                       |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |



## 15.1.2 Car Suspension

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                      | File | Result status | Result value | Operator                             | Vehicle |
|-------|------|--------------------------------------------------------------------------------------------------|------|---------------|--------------|--------------------------------------|---------|
| 10001 | I    | Car suspension Test                                                                              |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                               |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10003 | I    | Car suspension is not isolated in all cars                                                       |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10004 | I    | Air in main pipe is 10 bar                                                                       |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10005 | I    | TC1                                                                                              |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10006 | R    | Check the pressure on test point<br>LTPP.Read Undefined Value : x ()                             |      | OK            | 3.404        | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10007 | R    | Read Min/Max [TT]<br>(MPU1)bcu1_bcususppress : 311<= x <= 371                                    |      | OK            | 341.04       | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10008 | R    | Read Defined Variable [TT]<br>(MPU1)bcu1_suspsodc = 0.0                                          |      | OK            | 0            | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10009 | A    | Close the isolation cock C1.10                                                                   |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10010 | R    | Read Defined Variable [TT]<br>(MPU1)bcu1_suspsodc = 1.0                                          |      | OK            | 1            | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10011 | R    | Check Pressure on test point C1.11.2 =<br>ObarRead Undefined Value : x ()                        |      | OK            | 0.001        | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10012 | A    | Open the isolation cock C1.10                                                                    |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10013 | A    | Check all test point covers have been put<br>back in place in the brake panel and<br>suspension. |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10014 | I    | M4                                                                                               |      | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10015 | R    | Check the pressure on test point<br>LTPP.Read Undefined Value : x ()                             |      | OK            | 2.686        | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10016 | R    | Read Min/Max [TT]<br>(MPU1)tbcu4_bcususppress : 260<= x <= 320                                   |      | OK            | 272.14       | TIVANI Angel<br>542257<br>18.11.2025 | Train   |

|       |   |                                                                                                  |  |    |        |                                      |       |
|-------|---|--------------------------------------------------------------------------------------------------|--|----|--------|--------------------------------------|-------|
| 10017 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_suspisodc = 0.0                                        |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10018 | A | Close the isolation cock C2.10                                                                   |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10019 | R | Check Pressure on test point C2.11.2 =<br>ObarRead Undefined Value : x ()                        |  | OK | 0.002  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10020 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_suspisodc = 1.0                                        |  | OK | 1      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10021 | A | Open the isolation cock C2.10                                                                    |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10022 | A | Check all test point covers have been put<br>back in place in the brake panel and<br>suspension. |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10023 | I | M1                                                                                               |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10024 | R | Check the pressure on test point<br>LPTP.Read Undefined Value : x ()                             |  | OK | 2.82   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10025 | R | Read Min/Max [TT]<br>(MPU1)TBCU1_bcususpypress : 271<= x<br><= 331                               |  | OK | 283.71 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_suspisodc = 0.0                                        |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10027 | A | Close the isolation cock C2.10                                                                   |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10028 | R | Check Pressure on test point C2.11.2 =<br>ObarRead Undefined Value : x ()                        |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10029 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_suspisodc = 1.0                                        |  | OK | 1      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10030 | A | Open the isolation cock C2.10                                                                    |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10031 | A | Check all test point covers have been put<br>back in place in the brake panel and<br>suspension. |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10032 | I | M2                                                                                               |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10033 | R | Check the pressure on test point<br>LPTP.Read Undefined Value : x ()                             |  | OK | 3.222  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10034 | R | Read Min/Max [TT]<br>(MPU1)tbcu2_bcususpypress : 271<= x <=<br>331                               |  | OK | 323.76 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                  |  |    |        |                                      |       |
|-------|---|--------------------------------------------------------------------------------------------------|--|----|--------|--------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_suspiodc = 0.0                                         |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10036 | A | Close the isolation cock C2.10                                                                   |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10037 | R | Check Pressure on test point C2.11.2 =<br>ObarRead Undefined Value : x ()                        |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_suspiodc = 1.0                                         |  | OK | 1      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10039 | A | Open the isolation cock C2.10                                                                    |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10040 | A | Check all test point covers have been put<br>back in place in the brake panel and<br>suspension. |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10041 | I | M3                                                                                               |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10042 | R | Check the pressure on test point<br>LPTP.Read Undefined Value : x ()                             |  | OK | 2.823  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10043 | R | Read Min/Max [TT]<br>(MPU1)tbcu3_bcususppress : 260<= x <=<br>320                                |  | OK | 283.96 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_suspiodc = 0.0                                         |  | OK | 0      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10045 | A | Close the isolation cock C2.10                                                                   |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10046 | R | Check Pressure on test point C2.11.2 =<br>ObarRead Undefined Value : x ()                        |  | OK | 0.001  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10047 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_suspiodc = 1.0                                         |  | OK | 1      | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10048 | A | Open the isolation cock C2.10                                                                    |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10049 | A | Check all test point covers have been put<br>back in place in the brake panel and<br>suspension. |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10050 | I | TC2                                                                                              |  | OK |        | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10051 | R | Check the pressure on test point<br>LPTP.Read Undefined Value : x ()                             |  | OK | 3.221  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10052 | R | Read Min/Max [TT]<br>(MPU1)BCU2_BcuSuspPress : 311<= x<br><= 371                                 |  | OK | 325.59 | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                  |  |    |   |                                      |       |
|-------|---|--------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10053 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_SusplsoDC = 0.0                                         |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10054 | A | Close the isolation cock C1.10                                                                   |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10055 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_SusplsoDC = 1.0                                         |  | OK | 1 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10056 | R | Check Pressure on test point C1.11.2 =<br>ObarRead Undefined Value : x ()                        |  | OK | 0 | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10057 | A | Open the isolation cock C1.10                                                                    |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10058 | A | Check all test point covers have been put<br>back in place in the brake panel and<br>suspension. |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10059 | I | End of Test                                                                                      |  | OK |   | TIVANI Angel<br>542257<br>18.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 16 – Emergency Brake Interlock

---

### 16.1 Instructions list

### 16.1.1 Emergency Brake Interlock

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                    | File | Result status | Result value | Operator                                             | Vehicle |
|-------|------|--------------------------------------------------------------------------------|------|---------------|--------------|------------------------------------------------------|---------|
| 10001 | I    | Emergency Brake SPP=044 UBK                                                    |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10002 | I    | Emergency Brake Cylinder Pressure                                              |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10003 | I    | Pressure in the main pipe should be 10 bar +/- 0.2bar                          |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10004 | I    | The direction selector switch is in Neutral position                           |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10005 | I    | Emergency brake is applied                                                     |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10006 | A    | Measure the pressure of the BCTP point in all cars with a calibrated manometer |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train   |
| 10007 | R    | BCTP TC1Result Min/Max : 157<= x <= 197 (kPa)                                  |      | OK            | 158.8        | Mphato Mphahlele<br>480716<br>19.11.2025             | Train   |
| 10008 | R    | BCTP M4Result Min/Max : 187<= x <= 227 (kPa)                                   |      | OK            | 197.7        | Mphato Mphahlele<br>480716<br>19.11.2025             | Train   |
| 10009 | R    | BCTP M1Result Min/Max : 192<= x <= 232 (kPa)                                   |      | OK            | 212          | Mphato Mphahlele<br>480716<br>19.11.2025             | Train   |
| 10010 | R    | BCTP M2Result Min/Max : 192<= x <= 232 (kPa)                                   |      | OK            | 218.3        | Mphato Mphahlele<br>480716<br>19.11.2025             | Train   |
| 10011 | R    | BCTP M3Result Min/Max : 187<= x <= 227 (kPa)                                   |      | OK            | 214.6        | Mphato Mphahlele<br>480716<br>19.11.2025             | Train   |
| 10012 | R    | BCTP TC2Result Min/Max : 157<= x <= 197 (kPa)                                  |      | OK            | 195          | Mphato Mphahlele<br>480716<br>19.11.2025             | Train   |
| 10013 | I    | Emergency brake TC1                                                            |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025             | Train   |
| 10014 | I    | Emergency brake by Direction Switch TC1                                        |      | OK            |              | Hlawulani Nick<br>Mabundzane<br>418320               | Train   |

|       |   |                                                       |  |    |   |                                             |       |
|-------|---|-------------------------------------------------------|--|----|---|---------------------------------------------|-------|
|       |   |                                                       |  |    |   | 18.11.2025                                  |       |
| 10015 | I | Direction selector switch is in NEUTRAL position      |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10016 | A | Active cab on TC1                                     |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10017 | R | Read Defined Variable [TT] UBK_EmgcyBrkApId = 1.0     |  | OK | 1 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10018 | R | Read Defined Variable [TT] (MPU1)BCU2_tINeb = 0.0     |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10019 | R | Read Defined Variable [TT] (MPU1)bcu1_tlneb = 0.0     |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10020 | R | Read Defined Variable [TT] (MPU1)tbcu2_tlneb = 0.0    |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10021 | R | Read Defined Variable [TT] (MPU1)TBCU1_tlneb = 0.0    |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10022 | R | Read Defined Variable [TT] (MPU1)tbcu3_tlneb = 0.0    |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT] (MPU1)tbcu4_tlneb = 0.0    |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10024 | A | Put the direction selector switch in FORWARD position |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10025 | R | Read Defined Variable [TT] UBK_EmgcyBrkApId = 0.0     |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT] (MPU1)BCU2_tINeb = 1.0     |  | OK | 1 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT] (MPU1)bcu1_tlneb = 1.0     |  | OK | 1 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT] (MPU1)tbcu2_tlneb = 1.0    |  | OK | 1 | Hlawulani Nick Mabundzane 418320            | Train |



|       |   |                                                          |  |    |   |                                                      |       |
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|       |   |                                                          |  |    |   | 18.11.2025                                           |       |
| 10029 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10030 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10032 | A | Put the direction selector switch in<br>REVERSE position |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 0.0     |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10034 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TlNeb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10035 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnb = 1.0      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10036 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10037 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10039 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10040 | A | Put the direction selector switch in<br>NEUTRAL position |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10041 | I | Emergency Brake Button TC1                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10042 | A | Put the direction selector switch in<br>FORWARD position |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320               | Train |

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|       |   |                                                                                                                           |  |    |   | 18.11.2025                                           |       |
| 10043 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApId = 0.0                                                                      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10044 | A | Apply emergency brake using the red<br>button 44S1                                                                        |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10045 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApId = 1.0                                                                      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10046 | A | Release the button 44S1                                                                                                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10047 | A | Put the direction selector switch in<br>NEUTRAL Position and again in<br>FORWARD position to reset the<br>emergency brake |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10048 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApId = 0.0                                                                      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10049 | A | On the non-active cab TC2, apply<br>emergency brake using the red button<br>44S1                                          |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10050 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApId = 1.0                                                                      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10051 | A | Release the button 44S1                                                                                                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10052 | A | Put the direction selector switch in<br>NEUTRAL position                                                                  |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10053 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApId = 1.0                                                                      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10054 | I | Emergency Brake by Master controller<br>TC1                                                                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10055 | A | Put the direction selector switch in<br>FORWARD position                                                                  |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10056 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApId = 0.0                                                                      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320               | Train |

|       |   |                                                       |  |    |   |                                             |       |
|-------|---|-------------------------------------------------------|--|----|---|---------------------------------------------|-------|
|       |   |                                                       |  |    |   | 18.11.2025                                  |       |
| 10057 | A | Put the master controller in EMERGENCY BRAKE position |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10058 | R | Read Defined Variable [TT] UBK_EmgcyBrkApld = 1.0     |  | OK | 1 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10059 | A | Put the master controller in OFF position             |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10060 | R | Read Defined Variable [TT] UBK_EmgcyBrkApld = 1.0     |  | OK | 1 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10061 | I | PEA override TC1                                      |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10062 | A | Put the direction selector switch in FORWARD position |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10063 | R | Read Defined Variable [TT] UBK_EmgcyBrkApld = 0.0     |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10064 | R | Lamp 44H5 is OFF                                      |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10065 | A | Pull any PEA on train                                 |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10066 | R | Lamp 44H5 is ON                                       |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10067 | A | Press the PEA override button 44S5                    |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10068 | A | Reset the PEA by switch 44S6                          |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10069 | R | Lamp 44H5 is OFF                                      |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10070 | A | Press the button 44S5 to normalize PEA override       |  | OK |   | Hlawulani Nick Mabundzane 418320            | Train |

|       |   |                                                       |  |    |   |                                                      |       |
|-------|---|-------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
|       |   |                                                       |  |    |   | 18.11.2025                                           |       |
| 10071 | I | Emergency brake TC2                                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10072 | I | Emergency brake by Direction Switch TC2               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10073 | I | Direction selector switch is in NEUTRAL position      |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10074 | A | Switch active cab to TC2                              |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10075 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 1.0  |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10076 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_tINeb = 0.0  |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10077 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tIneb = 0.0  |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10078 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_tIneb = 0.0 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10079 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_tIneb = 0.0 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10080 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tIneb = 0.0 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10081 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tIneb = 0.0 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10082 | A | Put the direction selector switch in FORWARD position |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10083 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 0.0  |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10084 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_tINeb = 1.0  |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320               | Train |

|       |   |                                                          |  |    |   |                                                      |       |
|-------|---|----------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
|       |   |                                                          |  |    |   | 18.11.2025                                           |       |
| 10085 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnb = 1.0      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10086 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10087 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10088 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10089 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10090 | A | Put the direction selector switch in<br>REVERSE position |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10091 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApd = 0.0      |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10092 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_Tlnb = 1.0      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnb = 1.0      |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)tbcu2_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10095 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10096 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10097 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnb = 1.0     |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10098 | I | Emergency Brake Button TC2                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320               | Train |

|       |   |                                                                                                                  |  |    |   |                                             |       |
|-------|---|------------------------------------------------------------------------------------------------------------------|--|----|---|---------------------------------------------|-------|
|       |   |                                                                                                                  |  |    |   | 18.11.2025                                  |       |
| 10099 | A | Apply emergency brake using the red button 44S1                                                                  |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10100 | A | Put the direction selector switch in FORWARD position                                                            |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10101 | A | Release the button 44S1                                                                                          |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT] UBK_EmgcyBrkApId = 1.0                                                                |  | OK | 1 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10103 | A | Put the direction selector switch in NEUTRAL position and again in FORWARD position to reset the emergency brake |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10104 | R | Read Defined Variable [TT] UBK_EmgcyBrkApId = 0.0                                                                |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10105 | A | On the non-active can TC1, apply emergency brake using the red button 44S1                                       |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT] UBK_EmgcyBrkApId = 1.0                                                                |  | OK | 1 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10107 | A | Release the button 44S1                                                                                          |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10108 | A | Put the direction selector switch in NEUTRAL position and again in FORWARD position to reset the emergency brake |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10109 | R | Read Defined Variable [TT] UBK_EmgcyBrkApId = 0.0                                                                |  | OK | 0 | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10110 | A | Put the direction selector switch in NEUTRAL position                                                            |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10111 | I | Emergency Brake by Master controller TC2                                                                         |  | OK |   | Hlawulani Nick Mabundzane 418320 18.11.2025 | Train |
| 10112 | A | Put the direction selector switch in FORWARD position                                                            |  | OK |   | Hlawulani Nick Mabundzane 418320            | Train |

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|-------|---|----------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
|       |   |                                                                      |  |    |   | 18.11.2025                                           |       |
| 10113 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 0.0                 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10114 | A | Put the master controller in EMERGENCY<br>BRAKE position             |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10115 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 1.0                 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10116 | A | Put the master controller in OFF position                            |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10117 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 1.0                 |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10118 | I | PEA override TC2                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10119 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 0.0                 |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10120 | A | Pull any PEA on train                                                |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10121 | R | Lamp 44H5 is ON                                                      |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10122 | A | Press the PEA override button 44S5                                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10123 | A | Reset the PEA by switch 44S6                                         |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10124 | R | Lamp 44H5 is OFF                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10125 | A | Press the button 44S5 to normalize PEA<br>override                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10126 | A | Put the direction selector switch in<br>Neutral and FORWARD position |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320               | Train |

|       |   |                                                                                                                |  |    |   |                                                      |       |
|-------|---|----------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
|       |   |                                                                                                                |  |    |   | 18.11.2025                                           |       |
| 10127 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 0.0                                                           |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10128 | I | Low Pressure                                                                                                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10129 | A | Force [TT]<br>(MPU1)lo_air_tc1compenabler1 = 0.0                                                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10130 | A | Force [TT]<br>(MPU1)lo_air_tc1compenabler2 = 0.0                                                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10131 | A | Force [TT]<br>(MPU1)lo_air_tc2compenabler1 = 0.0                                                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10132 | A | Force [TT]<br>(MPU1)lo_air_tc2compenabler2 = 0.0                                                               |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10133 | R | Drain the air in the main pipe until it<br>reaches below 6 bar, i.e. drain air to reach<br>the range 5-5.5 bar |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10134 | R | On DDU screen, emergency brake due to<br>low pressure appears                                                  |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10135 | R | Read Defined Variable [TT]<br>(BCU1)li_mp_ps_ok = 0.0                                                          |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10136 | R | Read Defined Variable [TT]<br>(BCU2)li_mp_ps_ok = 0.0                                                          |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10137 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApld = 1.0                                                           |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10138 | A | Release [TT]<br>(MPU1)lo_air_tc1compenabler1                                                                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10139 | A | Release [TT]<br>(MPU1)lo_air_tc1compenabler2                                                                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10140 | A | Release [TT]<br>(MPU1)lo_air_tc2compenabler2                                                                   |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320               | Train |



|       |   |                                                                                                 |  |    |   |                                                      |       |
|-------|---|-------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------------------|-------|
|       |   |                                                                                                 |  |    |   | 18.11.2025                                           |       |
| 10141 | A | Release [TT]<br>(MPU1)lo_air_tc2compenabler1                                                    |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10142 | I | The pressure in the main pipe should be at<br>least 7 bar for emergency brake to be<br>released |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10143 | A | Put the direction selector switch in<br>NEUTRAL position and again in<br>FORWARD position       |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10144 | R | Read Defined Variable [TT]<br>(BCU1)li_mp_ps_ok = 1.0                                           |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10145 | R | Read Defined Variable [TT]<br>(BCU2)li_mp_ps_ok = 1.0                                           |  | OK | 1 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10146 | R | Read Defined Variable [TT]<br>UBK_EmgcyBrkApId = 0.0                                            |  | OK | 0 | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |
| 10147 | I | End of Test                                                                                     |  | OK |   | Hlawulani Nick<br>Mabundzane<br>418320<br>18.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 17 – Fire Detection

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### 17.1 Instructions list

### 17.1.1 Fire Detection

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                | File | Result status | Result value | Operator                                  | Vehicle |
|-------|------|----------------------------------------------------------------------------|------|---------------|--------------|-------------------------------------------|---------|
| 10001 | I    | Fire Detection SPP= 067                                                    |      | OK            |              | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10002 | I    | Start of Test                                                              |      | OK            |              | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10003 | A    | Turn the key to Active cab                                                 |      | OK            |              | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10004 | A    | Close the battery contactor 18S1                                           |      | OK            |              | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10005 | A    | Press the automatic start button 20S1 to prepare the train in High voltage |      | OK            |              | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10006 | R    | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 1.0                     |      | OK            | 1            | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10007 | R    | Read Defined Variable [TT]<br>HSC_HscbClosedNum = 2.0                      |      | OK            | 2            | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10008 | R    | Read Defined Variable [TT]<br>(MPU1)NET_FDCUPresCIP = 1.0                  |      | OK            | 1            | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10009 | R    | Read Defined Variable [TT]<br>(MPU1)FSD_FireSystemOk = 1.0                 |      | OK            | 1            | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10010 | R    | Read Defined Variable [TT]<br>(MPU1)FSD_FireLocation = 1.0                 |      | OK            | 1            | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10011 | R    | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                       |      | OK            | 0            | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10012 | R    | Read Defined Variable [TT]<br>(MPU1)FDCU_Data2 = 0.0                       |      | OK            | 0            | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10013 | R    | Read Defined Variable [TT]<br>(MPU1)FDCU_Data3 = 0.0                       |      | OK            | 0            | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10014 | R    | Read Defined Variable [TT]<br>(MPU1)FDCU_DiagData = 0.0                    |      | OK            | 0            | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10015 | R    | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                     |      | OK            | 17           | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |
| 10016 | I    | Fire Detection Simulation test in Saloon                                   |      | OK            |              | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train   |

|       |   |                                                                                                                               |                                                                                   |    |    |                                           |       |
|-------|---|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|-------------------------------------------|-------|
| 10017 | I | In order to see the CCTV footage where fire was simulated, navigate through the ISO event.                                    |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10018 | I | Both cameras will be activated when a fire is detected in the saloon                                                          |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10019 | I | All HVACs are operational                                                                                                     |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10020 | I | TC1                                                                                                                           |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10021 | A | Simulate a fire by spraying the gas on the fire detection unit 67A4 on TC1 cab for at least 1s                                |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10022 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location                                                |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10023 | R | HVAC stops working in the cab and TC1 saloon                                                                                  |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                                                        |                                                                                   | OK | 49 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10025 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 1.0                                                                          |                                                                                   | OK | 1  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10026 | A | Reset the fire detection loop on the DDU                                                                                      |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10027 | R | 67H1 turns OFF on the Alarm Module and NO fire detected on the DDU                                                            |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10028 | R | The HVAC of TC1 Cab and Saloon starts working in normal condition                                                             |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10029 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                                                          |                                                                                   | OK | 0  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10030 | A | It takes about 40 seconds for the variable "FDCU_Status" below to change to 17. Read the variable before the next simulation. |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                                                        |                                                                                   | OK | 17 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10032 | A | Simulate a fire by spraying the gas on the fire detection unit 67A2 on TC1 car for at least 1s                                |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10033 | R | The CCTV footage showing TC1 saloon where the fire was detected is shown on the DDU                                           |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10034 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location                                                |                                                                                   | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                                |  |    |    |                                           |       |
|-------|---|------------------------------------------------------------------------------------------------|--|----|----|-------------------------------------------|-------|
| 10035 | R | HVAC stop working in TC1 saloon.                                                               |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10036 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                         |  | OK | 49 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10037 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 2.0                                           |  | OK | 2  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10038 | A | Reset the fire detection loop on the DDU                                                       |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10039 | R | HVAC starts working in TC1 saloon                                                              |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10040 | R | Camera footage disappears from the DDU screen                                                  |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10041 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                           |  | OK | 0  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10042 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                         |  | OK | 17 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10043 | A | Simulate a fire by spraying the gas on the fire detection unit 67A3 on TC1 car for at least 1s |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10044 | R | The CCTV footage showing TC1 saloon where the fire was detected is shown on the DDU            |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10045 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location                 |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10046 | R | HVAC stop working in TC1 saloon                                                                |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10047 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                         |  | OK | 49 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10048 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 4.0                                           |  | OK | 4  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10049 | A | Reset the fire detection loop on the DDU                                                       |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10050 | R | HVAC starts working in TC1 saloon                                                              |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10051 | R | Camera footage disappears from the DDU screen                                                  |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10052 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                           |  | OK | 0  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                               |  |    |    |                                           |       |
|-------|---|-----------------------------------------------------------------------------------------------|--|----|----|-------------------------------------------|-------|
| 10053 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                        |  | OK | 17 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10054 | I | M4 car Test                                                                                   |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10055 | A | Simulate a fire by spraying the gas on the fire detection unit 67A2 on M4 car for at least 1s |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10056 | R | The CCTV footage showing M4 saloon where the fire was detected is shown on the DDU            |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10057 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location                |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10058 | R | HVAC unit stop in M4 saloon.                                                                  |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10059 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                        |  | OK | 49 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10060 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 32.0                                         |  | OK | 32 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10061 | A | Reset the fire detection loop on the DDU                                                      |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10062 | R | HVAC starts working in the saloon                                                             |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10063 | R | Camera footage disappears from the DDU screen                                                 |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10064 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                          |  | OK | 0  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10065 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                        |  | OK | 17 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10066 | A | Simulate a fire by spraying the gas on the fire detection unit 67A3 on M4 car for at least 1s |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10067 | R | The CCTV footage showing M4 saloon where the fire was detected is shown on the DDU            |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10068 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location                |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10069 | R | HVAC stop working in the saloon                                                               |  | OK |    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10070 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                        |  | OK | 49 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                               |  |    |     |                                           |       |
|-------|---|-----------------------------------------------------------------------------------------------|--|----|-----|-------------------------------------------|-------|
| 10071 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 64.0                                         |  | OK | 64  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10072 | A | Reset the fire detection loop on the DDU                                                      |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10073 | R | HVAC starts working in M4 saloon                                                              |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10074 | R | Camera footage disappears from the DDU screen                                                 |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10075 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                          |  | OK | 0   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10076 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                        |  | OK | 17  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10077 | I | M1 car                                                                                        |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10078 | A | Simulate a fire by spraying the gas on the fire detection unit 67A2 on M1 car for at least 1s |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10079 | R | The CCTV footage showing M1 saloon where the fire was detected is shown on the DDU            |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10080 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location                |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10081 | R | HVAC stop working on M1                                                                       |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10082 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                        |  | OK | 49  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10083 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 256.0                                        |  | OK | 256 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10084 | A | Reset the fire detection loop on the DDU                                                      |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10085 | R | HVAC starts working in M1 saloon                                                              |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10086 | R | Camera footage disappears from the DDU screen                                                 |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10087 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                          |  | OK | 0   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10088 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                        |  | OK | 17  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |



|       |   |                                                                                               |  |    |      |                                           |       |
|-------|---|-----------------------------------------------------------------------------------------------|--|----|------|-------------------------------------------|-------|
| 10089 | A | Simulate a fire by spraying the gas on the fire detection unit 67A3 on M1 car for at least 1s |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10090 | R | The CCTV footage showing M1 saloon where the fire was detected is shown on the DDU            |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10091 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location                |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10092 | R | HVAC stop working in M1 saloon.                                                               |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                        |  | OK | 49   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 512.0                                        |  | OK | 512  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10095 | A | Reset the fire detection loop on the DDU                                                      |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10096 | R | HVAC starts working in M1 saloon                                                              |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10097 | R | Camera footage disappears from the DDU screen                                                 |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                          |  | OK | 0    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10099 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                        |  | OK | 17   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10100 | I | M2 car Test                                                                                   |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10101 | A | Simulate a fire by spraying the gas on the fire detection unit 67A3 on M2 for at least 1s     |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10102 | R | The CCTV footage showing M2 saloon where the fire was detected is shown on the DDU            |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10103 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location                |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10104 | R | HVAC stop working in M2                                                                       |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10105 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                        |  | OK | 49   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 4096.0                                       |  | OK | 4096 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                           |  |    |      |                                           |       |
|-------|---|-------------------------------------------------------------------------------------------|--|----|------|-------------------------------------------|-------|
| 10107 | A | Reset the fire detection loop on the DDU                                                  |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10108 | R | HVAC starts working in M2                                                                 |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10109 | R | Camera footage disappears from DDU screen                                                 |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10110 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                      |  | OK | 0    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10111 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                    |  | OK | 17   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10112 | A | Simulate a fire by spraying the gas on the fire detection unit 67A2 on M2 for at least 1s |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10113 | R | The CCTV footage showing M2 saloon where the fire was detected is shown on the DDU        |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10114 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location            |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10115 | R | HVAC stop working                                                                         |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10116 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                    |  | OK | 49   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10117 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 2048.0                                   |  | OK | 2048 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10118 | A | Reset the fire detection loop on the DDU                                                  |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10119 | R | HVAC starts working in M2                                                                 |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10120 | R | Camera footage disappears from the DDU screen                                             |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10121 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                      |  | OK | 0    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10122 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                    |  | OK | 17   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10123 | I | M3 car Test                                                                               |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10124 | A | Simulate a fire by spraying the gas on the fire detection unit 67A3 on M3 for at least 1s |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                           |  |    |       |                                           |       |
|-------|---|-------------------------------------------------------------------------------------------|--|----|-------|-------------------------------------------|-------|
| 10125 | R | The CCTV footage showing M3 saloon where the fire was detected is shown on the DDU        |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10126 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location            |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10127 | R | HVAC stop working in M3                                                                   |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10128 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                    |  | OK | 49    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10129 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 32768.0                                  |  | OK | 32768 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10130 | A | Reset the fire detection loop on the DDU                                                  |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10131 | R | HVAC starts working in M3                                                                 |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10132 | R | Camera footage disappears from the DDU screen                                             |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10133 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                      |  | OK | 0     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10134 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                    |  | OK | 17    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10135 | A | Simulate a fire by spraying the gas on the fire detection unit 67A2 on M3 for at least 1s |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10136 | R | The CCTV footage showing M3 saloon where the fire was detected is shown on the DDU        |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10137 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location            |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10138 | R | HVAC stop working in M3                                                                   |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10139 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                    |  | OK | 49    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10140 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 16384.0                                  |  | OK | 16384 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10141 | A | Reset the fire detection loop on the DDU                                                  |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10142 | R | HVAC starts working in M3                                                                 |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                            |  |    |        |                                           |       |
|-------|---|--------------------------------------------------------------------------------------------|--|----|--------|-------------------------------------------|-------|
| 10143 | R | Camera footage disappears from the DDU screen                                              |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10144 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                       |  | OK | 0      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10145 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                     |  | OK | 17     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10146 | I | TC2                                                                                        |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10147 | A | Simulate a fire by spraying the gas on the fire detection unit 67A3 on TC2 for at least 1s |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10148 | R | The CCTV footage showing TC2 saloon where the fire was detected is shown on the DDU        |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10149 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location             |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10150 | R | HVAC stops working in TC2 saloon                                                           |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10151 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                     |  | OK | 49     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10152 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 524288.0                                  |  | OK | 524288 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10153 | A | Reset the fire detection loop on the DDU                                                   |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10154 | R | HVAC starts working in TC2                                                                 |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10155 | R | Camera footage disappears from the DDU screen                                              |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10156 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                       |  | OK | 0      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10157 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                     |  | OK | 17     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10158 | A | Simulate a fire by spraying the gas on the fire detection unit 67A2 on TC2 for at least 1s |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10159 | R | The CCTV footage showing TC2 saloon where the fire was detected is shown on the DDU        |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10160 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location             |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                                |                                                                                     |    |        |                                           |       |
|-------|---|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--------|-------------------------------------------|-------|
| 10161 | R | HVAC stops working in TC2 saloon                                                               |                                                                                     | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10162 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                         |                                                                                     | OK | 49     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10163 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 262144.0                                      |                                                                                     | OK | 262144 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10164 | A | Reset the fire detection loop on the DDU                                                       |                                                                                     | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10165 | R | HVAC starts working in TC2                                                                     |                                                                                     | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10166 | R | Camera footage disappears from the DDU screen                                                  |                                                                                     | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10167 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                           |                                                                                     | OK | 0      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10168 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                         |                                                                                     | OK | 17     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10169 | A | Simulate a fire by spraying the gas on the fire detection unit 67A4 on TC2 cab for at least 1s |                                                                                     | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10170 | R | 67H1 becomes "ON" on the Alarm Module of TC2 and TC1, and the DDU also shows the fire location |                                                                                     | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10171 | R | HVAC stops working in TC2 saloon                                                               |                                                                                     | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10172 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 49.0                                         |                                                                                     | OK | 49     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10173 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 131072.0                                      |                                                                                     | OK | 131072 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10174 | A | Reset the fire detection loop on the DDU                                                       |                                                                                     | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10175 | R | HVAC starts working in TC2                                                                     |                                                                                     | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10176 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                                           |                                                                                     | OK | 0      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10177 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                                         |                                                                                     | OK | 17     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10178 | I | Fire Detection Simulation Underframe                                                           |  | OK |        | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                |  |    |       |                                           |       |
|-------|---|--------------------------------------------------------------------------------|--|----|-------|-------------------------------------------|-------|
| 10179 | I | TC2 ACU Test                                                                   |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10180 | A | Toggle the switch to activate a fire in the ACU                                |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10181 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10182 | R | Read Undefined Variable [TT]<br>(MPU1)FDCU_Data1                               |  | OK | 0     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10183 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m1hscbopenr1 = 0.0                  |  | OK | 0     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10184 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m2hscbopenr1 = 1.0                  |  | OK | 1     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10185 | A | Remove the switch and put back the cover                                       |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10186 | A | Reset the fire detection loop from the DDU                                     |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10187 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                           |  | OK | 0     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10188 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                         |  | OK | 17    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10189 | I | M3 car propulsion box                                                          |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10190 | A | Toggle the switch to activate a fire in M3 propulsion box                      |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10191 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10192 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 65536.0                       |  | OK | 65536 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10193 | R | Confirm that the value above is 65536                                          |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10194 | A | Remove the switch and put back the cover                                       |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10195 | A | Reset the fire detection loop from the DDU                                     |  | OK |       | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10196 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                           |  | OK | 0     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                   |  |    |      |                                           |       |
|-------|---|-----------------------------------------------------------------------------------|--|----|------|-------------------------------------------|-------|
| 10197 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                            |  | OK | 17   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10198 | I | M2 car propulsion box                                                             |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10199 | A | Toggle the switch to activate a fire in M2<br>propulsion box                      |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10200 | R | 67H1 becomes "ON" on the Alarm Module<br>and the DDU also shows the fire location |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10201 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 8192.0                           |  | OK | 8192 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10202 | A | Remove the switch and put back the cover                                          |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10203 | A | Reset the fire detection loop from the<br>DDU                                     |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10204 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                              |  | OK | 0    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10205 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                            |  | OK | 17   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10206 | I | M1 car propulsion box                                                             |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10207 | A | Toggle the switch to activate a fire in M1<br>propulsion box                      |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10208 | R | 67H1 becomes "ON" on the Alarm Module<br>and the DDU also shows the fire location |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10209 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 1024.0                           |  | OK | 1024 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10210 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m1hscopenr1 = 1.0                      |  | OK | 1    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10211 | A | Remove the switch and put back the cover                                          |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10212 | A | Reset the fire detection loop from the<br>DDU                                     |  | OK |      | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10213 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                              |  | OK | 0    | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10214 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                            |  | OK | 17   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |

|       |   |                                                                                |  |    |     |                                           |       |
|-------|---|--------------------------------------------------------------------------------|--|----|-----|-------------------------------------------|-------|
| 10215 | I | M4 Propulsion box                                                              |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10216 | A | Toggle the switch to activate a fire in M4 Propulsion box                      |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10217 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10218 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 128.0                         |  | OK | 128 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10219 | A | Remove the switch and put back the cover                                       |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10220 | A | Reset the fire detection loop from the DDU                                     |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10221 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                           |  | OK | 0   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10222 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                         |  | OK | 17  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10223 | I | TC1 ACU Test                                                                   |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10224 | A | Toggle the switch in TC1 to activate a fire in the ACU                         |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10225 | R | 67H1 becomes "ON" on the Alarm Module and the DDU also shows the fire location |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10226 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 16.0                          |  | OK | 16  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10227 | A | Remove the switch and put back the cover                                       |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10228 | A | Reset the fire detection loop from the DDU                                     |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10229 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Data1 = 0.0                           |  | OK | 0   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10230 | R | Read Defined Variable [TT]<br>(MPU1)FDCU_Status = 17.0                         |  | OK | 17  | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10231 | A | Close the HSCB                                                                 |  | OK |     | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10232 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m1hscbopenr1 = 0.0                  |  | OK | 0   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |



|       |   |                                                               |  |    |   |                                           |       |
|-------|---|---------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10233 | R | Read Defined Variable [TT]<br>(MPU1)li_hsc_m2hscbopenr1 = 0.0 |  | OK | 0 | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |
| 10234 | I | End of Test                                                   |  | OK |   | Mpumelelo Sithole<br>529980<br>18.11.2025 | Train |



Serial Tests Report  
TS312 – TFS  
RTR Train Functional Static Test Report

Document Reference  
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Version: A0

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20/11/2025

## Section 18 – Passenger Doors

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### 18.1 Instructions list

### 18.1.1 Passenger Doors

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                       | File                                                                                | Result status | Result value | Operator                                 | Vehicle |
|-------|------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|------------------------------------------|---------|
| 10001 | I    | Doors SPP = 050 DOR                                               |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10003 | I    | All doors should be closed                                        |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10004 | I    | Speed less than 3km/h relay 61K3 is energized                     |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10005 | I    | Start of Test                                                     |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10006 | I    | Uploading procedure:                                              |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10007 | I    | Follow the below instructions to upload software on all the doors |  | OK            |              | Dilikani Ngubane<br>526515<br>18.11.2025 | Train   |
| 10008 | I    | Doors functional Test TC1 Cab                                     |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10009 | I    | Door authorization not possible in non-active cab                 |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10010 | A    | Remove active cab on TC1                                          |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10011 | A    | Put the door authorization switch 50S7 to DRIVER mode             |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10012 | A    | Press the AUTH LEFT button 50S5                                   |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10013 | R    | Door AUTH LEFT not possible, Lamp 50S5 is OFF                     |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10014 | A    | Press the OPEN LEFT button 50S1                                   |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10015 | R    | OPEN LEFT door not possible, Lamp 50S1 is OFF                     |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10016 | A    | Press the AUTH RIGHT button 50S6                                  |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |

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| 10017 | R | Door AUTH RIGHT not possible, Lamp 50S6 is OFF                            |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10018 | A | Press the OPEN RIGHT button 50S2                                          |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10019 | R | OPEN RIGHT door not possible, Lamp 50S2 is OFF                            |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10020 | I | Door authorization with active cab                                        |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10021 | A | Activate cab on TC1                                                       |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10022 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1alldoorsclosedr1 = 0.0      |                                                                                     | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10023 | A | Press and hold the AUTH LEFT button 50S5                                  |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1opendoorpleftr1 = 0.0       |                                                                                     | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10025 | A | Press and hold the OPEN LEFT button 50S1                                  |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_tc1opendoorleft = 1.0          |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1opendoorpleftr1 = 1.0       |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10028 | R | Check on DDU screen that all left doors are OPEN and in WHITE colour      |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10029 | R | Door safety loop is OPEN, lamp 51H1 is ON                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10030 | A | Press and hold the CLOSE LEFT button 50S3                                 |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1closedoorpleftr1 = 1.0      |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1closedoorlineleft = 1.0     |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10033 | R | Lamp 51H1 is OFF                                                          |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10034 | R | Check on the DDU screen that all left doors are closed and in blue colour |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

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| 10035 | A | Press and hold the AUTH RIGHT button 50S6                                  |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10036 | R | Lamp 50S6 is ON                                                            |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10037 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1authdoorpbright = 1.0        |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1opendoorpbright1 = 0.0       |                                                                                     | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10039 | A | Press and hold the OPEN RIGHT button 50S2                                  |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10040 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_tc1opendoorright = 1.0          |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10041 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_tc1opendoorright = 1.0          |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10042 | R | Check on DDU screen that all right doors are OPEN                          |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10043 | R | Door safety loop is OPEN, lamp 51H1 is ON                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10044 | A | Press and hold the button 50S4 to close all right doors                    |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10045 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1closedoorpbright1 = 1.0      |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10046 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1closedoorlineright = 1.0     |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10047 | R | Lamp 51H1 is OFF                                                           |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10048 | R | Check on the DDU screen that all right doors are closed and in blue colour |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10049 | A | Press the AUTH LEFT button 50S5                                            |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10050 | A | Press the OPEN LEFT button 50S1                                            |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10051 | A | Press the AUTH RIGHT button 50S6                                           |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10052 | A | Press the OPEN RIGHT button 50S2                                           |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

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| 10053 | R | Take a walk to TC2 on the train, verify that all doors have the light 50H20 lighting in GREEN colour to indicate door is open |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10054 | A | Press the CLOSE LEFT button 50S3                                                                                              |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10055 | A | Press the CLOSE RIGHT button 50S4                                                                                             |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10056 | R | All doors are closed on the DDU screen                                                                                        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10057 | I | Train speed more than 3km/h TC1                                                                                               |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10058 | A | Open 61Q1 to switch OFF the OTDR                                                                                              |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10059 | A | Press the AUTH LEFT button 50S5                                                                                               |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10060 | A | Press the OPEN LEFT button 50S1                                                                                               |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10061 | A | Press the AUTH RIGHT button 50S6                                                                                              |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10062 | A | Press the OPEN RIGHT button 50S2                                                                                              |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10063 | A | Force [TT] (BCU1)LO_SPEED_THRSLD1 = 0.0                                                                                       |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10064 | A | Force [TT] (BCU2)LO_SPEED_THRSLD1 = 0.0                                                                                       |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10065 | R | All left doors are closed                                                                                                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10066 | R | All right doors are closed                                                                                                    |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10067 | A | Press the AUTH LEFT button 50S5                                                                                               |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10068 | A | Press the OPEN LEFT button 50S1                                                                                               |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10069 | A | Press the AUTH RIGHT button 50S6                                                                                              |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10070 | A | Press the OPEN RIGHT button 50S2                                                                                              |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

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| 10071 | R | All doors remain closed                                              |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10072 | A | Release [TT]<br>(BCU1)LO_SPEED_THRSLD1                               |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10073 | A | Release [TT]<br>(BCU2)LO_SPEED_THRSLD1                               |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10074 | I | Doors functional Test TC2 Cab                                        |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10075 | I | Door authorization not possible in non-active cab                    |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10076 | A | Press the AUTH LEFT button 50S5                                      |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10077 | R | Door AUTH LEFT not possible, Lamp 50S5 is OFF                        |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10078 | A | Press the OPEN LEFT button 50S1                                      |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10079 | R | OPEN LEFT door is not possible, Lamp 50S1 is OFF                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10080 | A | Press the AUTH RIGHT button 50S6                                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10081 | R | Door AUTH RIGHT not possible, Lamp 50S6 is OFF                       |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10082 | A | Press the OPEN RIGHT button 50S2                                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10083 | R | OPEN RIGHT door not possible, Lamp 50S2 is OFF                       |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10084 | I | Door authorization with active cab                                   |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10085 | A | Activate cab on TC2                                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10086 | A | Set the door authorization switch 50S7 to DRIVER mode in LV1         |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10087 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2alldoorsclosedr1 = 0.0 |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10088 | A | Press and hold the AUTH LEFT button 50S5                             |  | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |



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| 10089 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2authdoorpbleft = 1.0           |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10090 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2opendoorpleftr1 = 0.0          |                                                                                   | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10091 | A | Press and hold the OPEN LEFT button<br>50S1                                  |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10092 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_tc2opendoorleft = 1.0             |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2opendoorpleftr1 = 1.0          |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10094 | R | Check on DDU screen that all left doors<br>are OPEN and in WHITE colour      |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10095 | I | Door safety loop is OPEN, lamp 51H1 is<br>ON                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10096 | A | Press and hold the CLOSE LEFT button<br>50S3                                 |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10097 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2closedoorlineleft = 1.0        |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2closedoorpleftr1 = 1.0         |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10099 | R | Lamp 51H1 is OFF                                                             |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10100 | R | Check on the DDU screen that all left<br>doors are closed and in blue colour |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10101 | A | Press and hold and hold the AUTH RIGHT<br>button 50S6                        |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2authdoorpbright = 1.0          |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10103 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2opendoorpbrighttr1 =<br>0.0    |                                                                                   | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10104 | A | Press and hold the OPEN RIGHT button<br>50S2                                 |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10105 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2opendoorpbrighttr1 =<br>1.0    |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10106 | R | Check on DDU screen that all right doors<br>are OPEN                         |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

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| 10107 | I | Door safety loop is OPEN, lamp 51H1 is ON                                                                                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10108 | R | Press the CLOSE RIGHT button 50S4                                                                                             |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10109 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2closedoorlineleft = 1.0                                                         |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10110 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2closedoorpbrightr1 = 1.0                                                        |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10111 | R | Lamp 51H1 is OFF                                                                                                              |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10112 | R | Check on the DDU screen that all right doors are closed and in blue colour                                                    |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10113 | A | Press the AUTH LEFT button 50S5                                                                                               |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10114 | A | Press the OPEN LEFT button 50S1                                                                                               |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10115 | A | Press the AUTH RIGHT button 50S6                                                                                              |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10116 | A | Press the OPEN RIGHT button 50S2                                                                                              |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10117 | R | Take a walk to TC1 on the train, verify that all doors have the light 50H20 lighting in GREEN colour to indicate door is open |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10118 | A | Press the CLOSE LEFT button 50S3                                                                                              |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10119 | A | Press the CLOSE RIGHT button 50S4                                                                                             |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10120 | R | All doors are closed on the DDU screen                                                                                        |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10121 | I | Train speed more than 3km/h TC2                                                                                               |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10122 | A | Open 61Q1 to switch OFF the OTDR                                                                                              |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10123 | A | Press the AUTH LEFT button 50S5                                                                                               |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10124 | A | Press the OPEN LEFT button 50S1                                                                                               |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

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| 10125 | A | Press the AUTH RIGHT button 50S6                                                                            |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10126 | A | Press the OPEN RIGHT button 50S2                                                                            |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10127 | A | Force [TT] (BCU1)LO_SPEED_THRSLD1 = 0.0                                                                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10128 | A | Force [TT] (BCU2)LO_SPEED_THRSLD1 = 0.0                                                                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10129 | R | All left doors are closed                                                                                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10130 | R | All right doors are closed                                                                                  |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10131 | A | Press the AUTH LEFT button 50S5                                                                             |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10132 | A | Press the OPEN LEFT button 50S1                                                                             |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10133 | A | Press the AUTH RIGHT button 50S6                                                                            |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10134 | A | Press the OPEN RIGHT button 50S2                                                                            |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10135 | R | All doors remain closed                                                                                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10136 | A | Release [TT] (BCU1)LO_SPEED_THRSLD1                                                                         |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10137 | A | Release [TT] (BCU2)LO_SPEED_THRSLD1                                                                         |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10138 | A | Close 61Q1 circuit breaker                                                                                  |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10139 | I | Door Obstacle Detection                                                                                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10140 | I | This test is to verify if the CCTV footage will display on the DDU when an obstacle is detected at any door |  | OK |  | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10141 | A | Press the DOOR AUTH left button 50S5                                                                        |  | OK |  | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10142 | A | Press the button 50S1 to open left doors                                                                    |  | OK |  | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                                   |                                                                                   |    |      |                                          |       |
|-------|---|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|------|------------------------------------------|-------|
| 10143 | A | Place an obstacle at the centre of any of the open doors                          |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10144 | A | Close the left doors                                                              |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10145 | I | The door with an obstacle will attempt to close 3 times                           |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10146 | R | The door with an obstacle appears in white colour on the DDU screen               |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10147 | A | Remove the obstacle                                                               |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10148 | A | Open and close left doors                                                         |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10149 | R | The door which had the obstacle appears closed on the DDU and it's in blue colour |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10150 | I | Door Manual Opening                                                               |  | OK |      | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10151 | A | All doors should be closed including the door covers in each saloon               |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10152 | I | TC1                                                                               |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10153 | A | Put the switch 50S7 in DRIVER mode                                                |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10154 | A | Try to manually open ALL TC1 DOORS                                                |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10155 | R | It is not possible to manually open any of the doors                              |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10156 | A | Pull the PEA using the Force gauge while measuring the effort of the PEA          |                                                                                   | OK |      | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10157 | R | DOOR1 PEA effortResult Max : x <= 120 (N)                                         |                                                                                   | OK | 94.5 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10158 | R | DOOR2 PEA effortResult Max : x <= 120 (N)                                         |                                                                                   | OK | 90.1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10159 | R | DOOR3 PEA effortResult Max : x <= 120 (N)                                         |                                                                                   | OK | 89.6 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10160 | R | DOOR4 PEA effortResult Max : x <= 120 (N)                                         |                                                                                   | OK | 92.8 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                   |  |    |       |                                          |       |
|-------|---|-------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10161 | R | DOOR5 PEA effortResult Max : x <= 120 (N)                         |  | OK | 101.1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10162 | R | DOOR6 PEA effortResult Max : x <= 120 (N)                         |  | OK | 94.4  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10163 | A | Manually open the doors                                           |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10164 | R | Doors opens freely                                                |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10165 | A | Press AUTH LEFT BUTTON 50S5                                       |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10166 | A | Press AUTH RIGHT BUTTON 50S6                                      |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10167 | A | Press the OPEN LEFT button 50S1                                   |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10168 | A | Press the OPEN RIGHT button 50S2                                  |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10169 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_tc1opendoorright = 1.0 |  | OK | 1     | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10170 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_tc1opendoorleft = 1.0  |  | OK | 1     | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10171 | A | Press the CLOSE LEFT button 50S3                                  |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10172 | A | Press the CLOSE RIGHT button 50S4                                 |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10173 | R | The TC1 doors remains open                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10174 | A | Press the button 54S3 to acknowledge PEAs                         |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10175 | A | Reset the PEA using switch 44S6                                   |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10176 | A | Press AUTH LEFT BUTTON 50S5                                       |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10177 | A | Press AUTH RIGHT BUTTON 50S6                                      |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10178 | A | Press the OPEN LEFT button 50S1                                   |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                     |  |    |  |                                          |       |
|-------|---|-----------------------------------------------------|--|----|--|------------------------------------------|-------|
| 10179 | A | Press the OPEN RIGHT button 50S2                    |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10180 | A | Press the CLOSE LEFT button 50S3                    |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10181 | A | Press the CLOSE RIGHT button 50S4                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10182 | R | The TC1 doors closes                                |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10183 | A | Activate the lockout device on ALL TC1 Doors        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10184 | R | Doors of TC1 appear as OUT OF SERVICE on DDU screen |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10185 | A | Try to manually open the doors                      |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10186 | R | It is not possible to open any of the doors         |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10187 | A | Pull the PEAs                                       |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10188 | A | Try to manually open the doors                      |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10189 | R | It is not possible to open any of the doors         |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10190 | A | Press AUTH LEFT BUTTON 50S5                         |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10191 | A | Press AUTH RIGHT BUTTON 50S6                        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10192 | A | Press the OPEN LEFT button 50S1                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10193 | A | Press the OPEN RIGHT button 50S2                    |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10194 | R | All Train doors are open except for TC1 doors       |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10195 | A | Press the button 54S3 to acknowledge PEA            |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10196 | A | Release the lockout devices                         |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                          |  |    |       |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10197 | A | Reset the PEAs using the switch 44S6                                     |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10198 | A | Press the CLOSE LEFT button 50S3                                         |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10199 | A | Press the CLOSE RIGHT button 50S4                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10200 | R | Doors appears as Closed on the DDU screen                                |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10201 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1alldoorsclosedr1 = 0.0     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10202 | I | M4 car                                                                   |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10203 | A | Try to manually open ALL M4 DOORS                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10204 | R | It is not possible to manually open any of the doors                     |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10205 | A | Pull the PEA using the Force gauge while measuring the effort of the PEA |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10206 | R | DOOR1 PEA effortResult Max : x <= 120 (N)                                |  | OK | 96.8  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10207 | R | DOOR2 PEA effortResult Max : x <= 120 (N)                                |  | OK | 93.2  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10208 | R | DOOR3 PEA effortResult Max : x <= 120 (N)                                |  | OK | 100.4 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10209 | R | DOOR4 PEA effortResult Max : x <= 120 (N)                                |  | OK | 101.2 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10210 | R | DOOR5 PEA effortResult Max : x <= 120 (N)                                |  | OK | 99.8  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10211 | R | DOOR6 PEA effortResult Max : x <= 120 (N)                                |  | OK | 90.5  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10212 | A | Manually open the doors                                                  |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10213 | R | Doors opens freely                                                       |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10214 | A | Press AUTH LEFT BUTTON 50S5                                              |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                  |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10215 | A | Press AUTH RIGHT BUTTON 50S6                                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10216 | A | Press the OPEN LEFT button 50S1                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10217 | A | Press the OPEN RIGHT button 50S2                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10218 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_m4opendoorright = 1.0 |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10219 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_m4opendoorleft = 1.0  |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10220 | A | Press the CLOSE LEFT button 50S3                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10221 | A | Press the CLOSE RIGHT button 50S4                                |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10222 | R | The M4 doors remains open                                        |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10223 | A | Press the button 54S3 to acknowledge<br>PEAs                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10224 | A | Reset the PEA using switch 44S6                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10225 | A | Press AUTH LEFT BUTTON 50S5                                      |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10226 | A | Press AUTH RIGHT BUTTON 50S6                                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10227 | A | Press the OPEN LEFT button 50S1                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10228 | A | Press the OPEN RIGHT button 50S2                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10229 | A | Press the CLOSE LEFT button 50S3                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10230 | A | Press the CLOSE RIGHT button 50S4                                |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10231 | R | The M4 doors closes                                              |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10232 | A | Activate the lockout device on ALL M4<br>Doors                   |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |



|       |   |                                                                      |  |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10233 | R | Doors of M4 appear as OUT OF SERVICE on DDU screen                   |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10234 | A | Try to manually open the doors                                       |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10235 | R | It is not possible to open any of the doors                          |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10236 | A | Pull the PEAs                                                        |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10237 | A | Try to manually open the doors                                       |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10238 | R | It is not possible to open any of the doors                          |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10239 | A | Press AUTH LEFT BUTTON 50S5                                          |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10240 | A | Press AUTH RIGHT BUTTON 50S6                                         |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10241 | A | Press the OPEN LEFT button 50S1                                      |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10242 | A | Press the OPEN RIGHT button 50S2                                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10243 | R | All Train doors are open except for M4 doors                         |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10244 | A | Press the button 54S3 to acknowledge PEA                             |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10245 | A | Release the lockout devices                                          |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10246 | A | Reset the PEAs using the switch 44S6                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10247 | A | Press the CLOSE LEFT button 50S3                                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10248 | A | Press the CLOSE RIGHT button 50S4                                    |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10249 | R | Doors appears as Closed on the DDU screen                            |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10250 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1alldoorsclosedr1 = 0.0 |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                          |  |    |       |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10251 | I | M1 car                                                                   |  | OK |       | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10252 | A | Try to manually open ALL M1 DOORS                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10253 | R | It is not possible to manually open any of the doors                     |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10254 | A | Pull the PEA using the Force gauge while measuring the effort of the PEA |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10255 | R | DOOR1 PEA effortResult Max : x <= 120 (N)                                |  | OK | 100.4 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10256 | R | DOOR2 PEA effortResult Max : x <= 120 (N)                                |  | OK | 94.6  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10257 | R | DOOR3 PEA effortResult Max : x <= 120 (N)                                |  | OK | 92.5  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10258 | R | DOOR4 PEA effortResult Max : x <= 120 (N)                                |  | OK | 89.5  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10259 | R | DOOR5 PEA effortResult Max : x <= 120 (N)                                |  | OK | 98.4  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10260 | R | DOOR6 PEA effortResult Max : x <= 120 (N)                                |  | OK | 94.5  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10261 | A | Manually open the doors                                                  |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10262 | R | Doors opens freely                                                       |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10263 | A | Press AUTH LEFT BUTTON 50S5                                              |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10264 | A | Press AUTH RIGHT BUTTON 50S6                                             |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10265 | A | Press the OPEN LEFT button 50S1                                          |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10266 | A | Press the OPEN RIGHT button 50S2                                         |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10267 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_m1opendoorright = 1.0         |  | OK | 1     | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10268 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_m2opendoorleft = 1.0          |  | OK | 1     | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                    |  |    |  |                                          |       |
|-------|---|----------------------------------------------------|--|----|--|------------------------------------------|-------|
| 10269 | A | Press the CLOSE LEFT button 50S3                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10270 | A | Press the CLOSE RIGHT button 50S4                  |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10271 | R | The M1 doors remains open                          |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10272 | A | Press the button 54S3 to acknowledge PEAs          |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10273 | A | Reset the PEA using switch 44S6                    |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10274 | A | Press AUTH LEFT BUTTON 50S5                        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10275 | A | Press AUTH RIGHT BUTTON 50S6                       |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10276 | A | Press the OPEN LEFT button 50S1                    |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10277 | A | Press the OPEN RIGHT button 50S2                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10278 | A | Press the CLOSE LEFT button 50S3                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10279 | A | Press the CLOSE RIGHT button 50S4                  |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10280 | R | The M1 doors closes                                |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10281 | A | Activate the lockout device on ALL M1 Doors        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10282 | R | Doors of M1 appear as OUT OF SERVICE on DDU screen |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10283 | A | Try to manually open the doors                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10284 | R | It is not possible to open any of the doors        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10285 | A | Pull the PEAs                                      |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10286 | A | Try to manually open the doors                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                          |  |    |       |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10287 | R | It is not possible to open any of the doors                              |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10288 | A | Press AUTH LEFT BUTTON 50S5                                              |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10289 | A | Press AUTH RIGHT BUTTON 50S6                                             |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10290 | A | Press the OPEN LEFT button 50S1                                          |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10291 | A | Press the OPEN RIGHT button 50S2                                         |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10292 | R | All Train doors are open except for M1 doors                             |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10293 | A | Press the button 54S3 to acknowledge PEA                                 |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10294 | A | Release the lockout devices                                              |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10295 | A | Reset the PEAs using the switch 44S6                                     |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10296 | A | Press the CLOSE LEFT button 50S3                                         |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10297 | A | Press the CLOSE RIGHT button 50S4                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10298 | R | Doors appears as Closed on the DDU screen                                |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10299 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1alldoorsclosedr1 = 0.0     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10300 | I | M2 car                                                                   |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10301 | A | Try to manually open ALL M2 DOORS                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10302 | R | It is not possible to manually open any of the doors                     |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10303 | A | Pull the PEA using the Force gauge while measuring the effort of the PEA |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10304 | R | DOOR1 PEA effortResult Max : x <= 120 (N)                                |  | OK | 100.4 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                  |  |    |       |                                          |       |
|-------|---|------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10305 | R | DOOR2 PEA effortResult Max : x <= 120 (N)                        |  | OK | 96.4  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10306 | R | DOOR3 PEA effortResult Max : x <= 120 (N)                        |  | OK | 98.4  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10307 | R | DOOR4 PEA effortResult Max : x <= 120 (N)                        |  | OK | 101.6 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10308 | R | DOOR5 PEA effortResult Max : x <= 120 (N)                        |  | OK | 102.2 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10309 | R | DOOR6 PEA effortResult Max : x <= 120 (N)                        |  | OK | 99.7  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10310 | A | Manually open the doors                                          |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10311 | R | Doors opens freely                                               |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10312 | A | Press AUTH LEFT BUTTON 50S5                                      |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10313 | A | Press AUTH RIGHT BUTTON 50S6                                     |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10314 | A | Press the OPEN LEFT button 50S1                                  |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10315 | A | Press the OPEN RIGHT button 50S2                                 |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10316 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_m2opendoorright = 1.0 |  | OK | 1     | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10317 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_m2opendoorleft = 1.0  |  | OK | 1     | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10318 | A | Press the CLOSE LEFT button 50S3                                 |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10319 | A | Press the CLOSE RIGHT button 50S4                                |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10320 | R | The M2 doors remains open                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10321 | A | Press the button 54S3 to acknowledge PEAs                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10322 | A | Reset the PEA using switch 44S6                                  |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                    |  |    |  |                                          |       |
|-------|---|----------------------------------------------------|--|----|--|------------------------------------------|-------|
| 10323 | A | Press AUTH LEFT BUTTON 50S5                        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10324 | A | Press AUTH RIGHT BUTTON 50S6                       |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10325 | A | Press the OPEN LEFT button 50S1                    |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10326 | A | Press the OPEN RIGHT button 50S2                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10327 | A | Press the CLOSE LEFT button 50S3                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10328 | A | Press the CLOSE RIGHT button 50S4                  |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10329 | R | The M2 doors closes                                |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10330 | A | Activate the lockout device on ALL M2 Doors        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10331 | R | Doors of M2 appear as OUT OF SERVICE on DDU screen |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10332 | A | Try to manually open the doors                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10333 | R | It is not possible to open any of the doors        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10334 | A | Pull the PEAs                                      |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10335 | A | Try to manually open the doors                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10336 | R | It is not possible to open any of the doors        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10337 | A | Press AUTH LEFT BUTTON 50S5                        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10338 | A | Press AUTH RIGHT BUTTON 50S6                       |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10339 | A | Press the OPEN LEFT button 50S1                    |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10340 | A | Press the OPEN RIGHT button 50S2                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                          |  |    |       |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10341 | R | All Train doors are open except for M2 doors                             |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10342 | A | Press the button 54S3 to acknowledge PEA                                 |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10343 | A | Release the lockout devices                                              |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10344 | A | Reset the PEAs using the switch 44S6                                     |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10345 | A | Press the CLOSE LEFT button 50S3                                         |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10346 | A | Press the CLOSE RIGHT button 50S4                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10347 | R | Doors appears as Closed on the DDU screen                                |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10348 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1alldoorsclosedr1 = 0.0     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10349 | I | M3 car                                                                   |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10350 | A | Try to manually open ALL M3 DOORS                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10351 | R | It is not possible to manually open any of the doors                     |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10352 | A | Pull the PEA using the Force gauge while measuring the effort of the PEA |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10353 | R | DOOR1 PEA effortResult Max : x <= 120 (N)                                |  | OK | 98.6  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10354 | R | DOOR2 PEA effortResult Max : x <= 120 (N)                                |  | OK | 100.8 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10355 | R | DOOR3 PEA effortResult Max : x <= 120 (N)                                |  | OK | 94.6  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10356 | R | DOOR4 PEA effortResult Max : x <= 120 (N)                                |  | OK | 94.8  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10357 | R | DOOR5 PEA effortResult Max : x <= 120 (N)                                |  | OK | 92.6  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10358 | R | DOOR6 PEA effortResult Max : x <= 120 (N)                                |  | OK | 100.4 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                  |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10359 | A | Manually open the doors                                          |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10360 | R | Doors opens freely                                               |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10361 | A | Press AUTH LEFT BUTTON 50S5                                      |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10362 | A | Press AUTH RIGHT BUTTON 50S6                                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10363 | A | Press the OPEN LEFT button 50S1                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10364 | A | Press the OPEN RIGHT button 50S2                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10365 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_m3opendoorright = 1.0 |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10366 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_m3opendoorleft = 1.0  |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10367 | A | Press the CLOSE LEFT button 50S3                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10368 | A | Press the CLOSE RIGHT button 50S4                                |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10369 | R | The M3 doors remains open                                        |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10370 | A | Press the button 54S3 to acknowledge<br>PEAs                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10371 | A | Reset the PEA using switch 44S6                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10372 | A | Press AUTH LEFT BUTTON 50S5                                      |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10373 | A | Press AUTH RIGHT BUTTON 50S6                                     |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10374 | A | Press the OPEN LEFT button 50S1                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10375 | A | Press the OPEN RIGHT button 50S2                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10376 | A | Press the CLOSE LEFT button 50S3                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |



|       |   |                                                    |  |    |  |                                          |       |
|-------|---|----------------------------------------------------|--|----|--|------------------------------------------|-------|
| 10377 | A | Press the CLOSE RIGHT button 50S4                  |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10378 | R | The M3 doors closes                                |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10379 | A | Activate the lockout device on ALL M3 Doors        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10380 | R | Doors of M3 appear as OUT OF SERVICE on DDU screen |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10381 | A | Try to manually open the doors                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10382 | R | It is not possible to open any of the doors        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10383 | A | Pull the PEAs                                      |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10384 | A | Try to manually open the doors                     |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10385 | R | It is not possible to open any of the doors        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10386 | A | Press AUTH LEFT BUTTON 50S5                        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10387 | A | Press AUTH RIGHT BUTTON 50S6                       |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10388 | A | Press the OPEN LEFT button 50S1                    |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10389 | A | Press the OPEN RIGHT button 50S2                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10390 | R | All Train doors are open except for M3 doors       |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10391 | A | Press the button 54S3 to acknowledge PEA           |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10392 | A | Release the lockout devices                        |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10393 | A | Reset the PEAs using the switch 44S6               |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10394 | A | Press the CLOSE LEFT button 50S3                   |  | OK |  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                          |  |    |       |                                          |       |
|-------|---|--------------------------------------------------------------------------|--|----|-------|------------------------------------------|-------|
| 10395 | A | Press the CLOSE RIGHT button 50S4                                        |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10396 | R | Doors appears as Closed on the DDU screen                                |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10397 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1alldoorsclosedr1 = 0.0     |  | OK | 0     | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10398 | I | TC2 car                                                                  |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10399 | A | Try to manually open ALL TC2 DOORS                                       |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10400 | R | It is not possible to manually open any of the doors                     |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10401 | A | Pull the PEA using the Force gauge while measuring the effort of the PEA |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10402 | R | DOOR1 PEA effortResult Max : x <= 120 (N)                                |  | OK | 100.4 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10403 | R | DOOR2 PEA effortResult Max : x <= 120 (N)                                |  | OK | 99.6  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10404 | R | DOOR3 PEA effortResult Max : x <= 120 (N)                                |  | OK | 94.8  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10405 | R | DOOR4 PEA effortResult Max : x <= 120 (N)                                |  | OK | 95.8  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10406 | R | DOOR5 PEA effortResult Max : x <= 120 (N)                                |  | OK | 89.7  | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10407 | R | DOOR6 PEA effortResult Max : x <= 120 (N)                                |  | OK | 98    | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10408 | A | Manually open the doors                                                  |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10409 | R | Doors opens freely                                                       |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10410 | A | Press AUTH LEFT BUTTON 50S5                                              |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10411 | A | Press AUTH RIGHT BUTTON 50S6                                             |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10412 | A | Press the OPEN LEFT button 50S1                                          |  | OK |       | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                   |  |    |   |                                          |       |
|-------|---|-------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10413 | A | Press the OPEN RIGHT button 50S2                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10414 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_tc2opendoorright = 1.0 |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10415 | R | Read Defined Variable [TT]<br>(MPU1)lo_dor_tc2opendoorleft = 1.0  |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10416 | A | Press the CLOSE LEFT button 50S3                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10417 | A | Press the CLOSE RIGHT button 50S4                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10418 | R | The TC2 doors remains open                                        |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10419 | A | Press the button 54S3 to acknowledge<br>PEAs                      |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10420 | A | Reset the PEA using switch 44S6                                   |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10421 | A | Press AUTH LEFT BUTTON 50S5                                       |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10422 | A | Press AUTH RIGHT BUTTON 50S6                                      |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10423 | A | Press the OPEN LEFT button 50S1                                   |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10424 | A | Press the OPEN RIGHT button 50S2                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10425 | A | Press the CLOSE LEFT button 50S3                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10426 | A | Press the CLOSE RIGHT button 50S4                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10427 | R | The TC2 doors closes                                              |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10428 | A | Activate the lockout device on ALL TC2<br>Doors                   |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10429 | R | Doors of TC2 appear as OUT OF SERVICE<br>on DDU screen            |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10430 | A | Try to manually open the doors                                    |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                                                                                             |  |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10431 | R | It is not possible to open any of the doors                                                                                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10432 | A | Pull the PEAs                                                                                                                               |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10433 | A | Try to manually open the doors                                                                                                              |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10434 | R | It is not possible to open any of the doors                                                                                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10435 | A | Press AUTH LEFT BUTTON 50S5                                                                                                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10436 | A | Press AUTH RIGHT BUTTON 50S6                                                                                                                |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10437 | A | Press the OPEN LEFT button 50S1                                                                                                             |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10438 | A | Press the OPEN RIGHT button 50S2                                                                                                            |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10439 | R | All Train doors are open except for TC2 doors                                                                                               |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10440 | A | Press the button 54S3 to acknowledge PEA                                                                                                    |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10441 | A | Release the lockout devices                                                                                                                 |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10442 | A | Reset the PEAs using the switch 44S6                                                                                                        |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10443 | A | Press the CLOSE LEFT button 50S3                                                                                                            |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10444 | A | Press the CLOSE RIGHT button 50S4                                                                                                           |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10445 | R | Doors appears as Closed on the DDU screen                                                                                                   |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10446 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc1alldoorsclosedr1 = 0.0                                                                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10447 | I | Door cycle test                                                                                                                             |  | OK |   | Dilikani Ngubane<br>526515<br>19.11.2025 | Train |
| 10448 | I | This test should be performed at the end of the shift when there is no one who will want to go inside the train and disrupt the test cycle. |  | OK |   | Dilikani Ngubane<br>526515<br>19.11.2025 | Train |

|       |   |                                                                                                                                                |  |    |  |                                          |       |
|-------|---|------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|------------------------------------------|-------|
| 10449 | A | Check all the doors beep when opening and closing                                                                                              |  | OK |  | Dilikani Ngubane<br>526515<br>19.11.2025 | Train |
| 10450 | A | Check door lights are green when open for all doors                                                                                            |  | OK |  | Dilikani Ngubane<br>526515<br>19.11.2025 | Train |
| 10451 | A | Check door lights are red when closing from all doors                                                                                          |  | OK |  | Dilikani Ngubane<br>526515<br>19.11.2025 | Train |
| 10452 | A | Launch the door cycle test from the DDU                                                                                                        |  | OK |  | Dilikani Ngubane<br>526515<br>19.11.2025 | Train |
| 10453 | I | At the beginning of the next shift (test should be left to run overnight), all doors should still be able to open and close without any issues |  | OK |  | Dilikani Ngubane<br>526515<br>19.11.2025 | Train |
| 10454 | R | Door cycle test is successful                                                                                                                  |  | OK |  | Dilikani Ngubane<br>526515<br>19.11.2025 | Train |
| 10455 | I | End Test                                                                                                                                       |  | OK |  | Dilikani Ngubane<br>526515<br>19.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 19 – Traction Interlock

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### 19.1 Instructions list

### 19.1.1 Traction Interlock

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                          | File | Result status | Result value | Operator                                 | Vehicle |
|-------|------|----------------------------------------------------------------------|------|---------------|--------------|------------------------------------------|---------|
| 10001 | I    | Traction Interlock SPP=031                                           |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                   |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10003 | I    | The direction selector switch 30A1.S2 should be in NEUTRAL position  |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10004 | I    | All doors should be closed                                           |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10005 | I    | Emergency brake should be applied                                    |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10006 | I    | PEA override switch should be in NORMAL position                     |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10007 | I    | Traction Interlock override switch 31S1 should be in NORMAL position |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10008 | I    | Backup mode switch 27S1 should be in NORMAL position                 |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10009 | I    | Start of Test                                                        |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10010 | I    | Traction Interlock TC1                                               |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10011 | A    | Active cab on TC1                                                    |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10012 | A    | Force [TT]<br>(MPU1)lo_drc_tc1tractionloopr1 = 1.0                   |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10013 | A    | Force [TT]<br>(MPU1)lo_drc_tc1tractionloopr2 = 1.0                   |      | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10014 | R    | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0            |      | OK            | 0            | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10015 | R    | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0            |      | OK            | 0            | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10016 | R    | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 0.0           |      | OK            | 0            | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |



|       |   |                                                                            |  |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10017 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0                 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10018 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0                 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10019 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0                 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10020 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 1.0       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10021 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 1.0       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10022 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10024 | A | Put the direction selector switch 30A1.S2<br>should be in FORWARD position |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10025 | I | Emergency brake is released                                                |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10026 | R | Read Defined Variable [TT]<br>(MPU1)bcbu1_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0                  |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10029 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10030 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 0.0       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 0.0       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10034 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                            |  |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10036 | A | Put the direction selector switch 30A1.S2<br>should be in REVERSE position |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10037 | I | Emergency brake is released                                                |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0                  |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10039 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0                  |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10040 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10041 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10042 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10043 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 0.0       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10045 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 0.0       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10046 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10047 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10048 | I | Traction interlock with Doors TC1                                          |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10049 | A | Manually open any door                                                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10050 | R | LED 51H1 is "ON" on alarm module                                           |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10051 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0                  |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10052 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0                  |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10053 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TlNotInhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10054 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10055 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10056 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10057 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10058 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10059 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10060 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10061 | I | Simulate train speed of 5km/h contactor<br>61K2 is closed              |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10062 | A | Energize point 41 of terminal block<br>93XT104_5 with 110V DC          |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10063 | R | The opened door will automatically close                               |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10064 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10065 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TlNotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10066 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TlNotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10067 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10068 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10069 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10070 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10071 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10072 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10073 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10074 | A | Activate any PEA                                                       |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10075 | A | After 3 seconds press the button 44S5                                  |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10076 | I | Speed is greater than 5km/h therefore all doors will remain closed     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10077 | R | Door safety loop is closed, contactor 51K1 and 51K2 are energized      |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10078 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10079 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10080 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10081 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10082 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10083 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10084 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10085 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10086 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10087 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10088 | A | Reset PEA using switch 44S6                                            |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10089 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10090 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10091 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10092 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10093 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10095 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10096 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10097 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10099 | A | Remove 110V DC from terminal block<br>93XT104_5 point 41               |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10100 | A | Activate any PEA                                                       |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10101 | R | Door is unlocked and can be manually<br>opened                         |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10103 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10104 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10105 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10107 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10108 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10109 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10110 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10111 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10112 | A | Reset PEA using switch 44S6                                            |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10113 | A | Close the door opened above manually                                   |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10114 | R | Door safety loop is closed, contactor 51K1<br>and 51K2 are energized   |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10115 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10116 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10117 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10118 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10119 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10120 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10121 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10122 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10123 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10124 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                                                                  |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10125 | A | Press the red button 44S1 to make an emergency brake                                                             |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10126 | R | Contactor of 44K12 and 44K11 are de-energized                                                                    |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10127 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0                                                        |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10128 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0                                                        |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10129 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 0.0                                                       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10130 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0                                                       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10131 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0                                                       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10132 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0                                                       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10133 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 1.0                                             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10134 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 1.0                                             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10135 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0                                           |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10136 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0                                           |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10137 | A | Release the red button 44S1 for emergency brake                                                                  |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10138 | A | Put the direction selector switch in NEUTRAL position and again in FORWARD position to reset the emergency brake |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10139 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0                                                        |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10140 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0                                                        |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10141 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0                                                       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10142 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0                                                       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10143 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10144 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10145 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10146 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10147 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10148 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10149 | A | Force [TT]<br>(MPU1)lo_drc_tc1tractionloopr1 = 1.0                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10150 | A | Force [TT]<br>(MPU1)lo_drc_tc1tractionloopr2 = 0.0                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10151 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10152 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TlNotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10153 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TlNotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10154 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10155 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10156 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10157 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10158 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10159 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10160 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |



|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10161 | A | Force [TT]<br>(MPU1)lo_drc_tc1tractionloopr1 = 0.0                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10162 | A | Force [TT]<br>(MPU1)lo_drc_tc1tractionloopr2 = 1.0                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10163 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10164 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10165 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10166 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10167 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10168 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10169 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10170 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10171 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10172 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10173 | A | Force [TT]<br>(MPU1)lo_drc_tc1tractionloopr1 = 0.0                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10174 | A | Force [TT]<br>(MPU1)lo_drc_tc1tractionloopr2 = 0.0                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10175 | A | Put the direction selector switch in<br>NEUTRAL Position               |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10176 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10177 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10178 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                                                                  |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10179 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhb = 0.0                                                        |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10180 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhb = 0.0                                                        |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10181 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhb = 0.0                                                        |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10182 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 1.0                                             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10183 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 1.0                                             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10184 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0                                           |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10185 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0                                           |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10186 | A | Release [TT]<br>(MPU1)lo_drc_tc1tractionloopr1                                                                   |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10187 | A | Release [TT]<br>(MPU1)lo_drc_tc1tractionloopr2                                                                   |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10188 | I | Traction Interlock Override TC1                                                                                  |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10189 | A | Put the Traction Interlock switch 31S1 in<br>OVERRIDE position                                                   |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10190 | R | A fault code is generated on the DDU<br>screen to inform the driver that the door<br>interlock has been override |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10191 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhb = 1.0                                                         |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10192 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0                                                        |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10193 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0                                                       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10194 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhb = 1.0                                                        |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10195 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhb = 1.0                                                        |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10196 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhb = 1.0                                                        |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                            |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------------|----|---|------------------------------------------|-------|
| 10197 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 1.0       | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10198 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 1.0       | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10199 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 1.0     | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10200 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 1.0     | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10201 | A | Put the Traction Interlock switch 31S1 in<br>NORMAL position               | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10202 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0                  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10203 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0                  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10204 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 0.0                 | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10205 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0                 | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10206 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0                 | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10207 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0                 | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10208 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr1 = 1.0       | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10209 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractionauthorr2 = 1.0       | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10210 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider1 = 0.0     | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10211 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc1tractintoverrider2 = 0.0     | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10212 | A | Release [TT]<br>(MPU1)lo_drc_tc1tractionloopr1                             | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10213 | A | Release [TT]<br>(MPU1)lo_drc_tc1tractionloopr2                             | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10214 | A | Put the direction selector switch 30A1.S2<br>should be in NEUTRAL position | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                      |  |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10215 | A | Remove active cab on TC1                                             |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10216 | I | Traction Interlock TC2                                               |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10217 | A | Active Cab on TC2                                                    |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10218 | I | The direction selector switch 30A1.S2 should be in NEUTRAL position  |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10219 | I | All doors should be closed                                           |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10220 | I | Emergency brake should be applied                                    |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10221 | I | PEA override switch should be in NORMAL position                     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10222 | I | Traction Interlock override switch 31S1 should be in NORMAL position |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10223 | I | Backup mode switch 27S1 should be in NORMAL position                 |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10224 | A | Force [TT]<br>(MPU1)lo_drc_tc2tractionloopr1 = 1.0                   |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10225 | A | Force [TT]<br>(MPU1)lo_drc_tc2tractionloopr2 = 1.0                   |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10226 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0            |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10227 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0            |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10228 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 0.0           |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10229 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0           |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10230 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0           |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10231 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0           |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10232 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 1.0 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                            |  |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10233 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 1.0       |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10234 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10235 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10236 | A | Put the direction selector switch 30A1.S2<br>should be in FORWARD position |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10237 | I | Emergency brake is released                                                |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10238 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0                  |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10239 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0                  |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10240 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10241 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10242 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10243 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10244 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 0.0       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10245 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 0.0       |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10246 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10247 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10248 | A | Put the direction selector switch 30A1.S2<br>should be in REVERSE position |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10249 | I | Emergency brake is released                                                |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10250 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0                  |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10251 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TlNotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10252 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TlNotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10253 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10254 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10255 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10256 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10257 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10258 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10259 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10260 | I | Traction Interlock with Doors TC2                                      |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10261 | A | Manually open any door                                                 |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10262 | R | LED 51H1 is "ON" on alarm module                                       |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10263 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10264 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TlNotInhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10265 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TlNotInhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10266 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10267 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10268 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10269 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10270 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10271 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10272 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10273 | I | Simulate train speed of 5km/h contactor<br>61K2 is closed              |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10274 | A | Energize point 41 of terminal block<br>93XT104_5 with 110V DC          |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10275 | R | The opened door will automatically close                               |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10276 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10277 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10278 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10279 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10280 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10281 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10282 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10283 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10284 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10285 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10286 | A | Activate any PEA                                                       |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10287 | A | After 3 seconds press the button 44S5                                  |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10288 | I | Speed is greater than 5km/h therefore all doors will remain closed     |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10289 | R | Door safety loop is closed, contactor 51K1 and 51K2 are energized      |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10290 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10291 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10292 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10293 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10294 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10295 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10296 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10297 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10298 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10299 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10300 | A | Reset PEA using switch 44S6                                            |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10301 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10302 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10303 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10304 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |



|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10305 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10306 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10307 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10308 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10309 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10310 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10311 | A | Remove 110V DC from terminal block<br>93XT104_5 point 41               |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10312 | A | Activate any PEA                                                       |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10313 | R | Door is unlocked and can be manually<br>opened                         |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10314 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10315 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10316 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10317 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10318 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10319 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10320 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10321 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10322 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10323 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10324 | A | Reset PEA using switch 44S6                                            |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10325 | A | Close the door opened above manually                                   |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10326 | R | Door safety loop is closed, contactor 51K1 and 51K2 are energized      |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10327 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10328 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10329 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10330 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10331 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10332 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10333 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10334 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10335 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10336 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10337 | A | Press the red button 44S1 to make an emergency brake                   |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10338 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10339 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10340 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                                           |  |    |   |                                          |       |
|-------|---|-------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10341 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0                                |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10342 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0                                |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10343 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0                                |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10344 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 1.0                      |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10345 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 1.0                      |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10346 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0                    |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10347 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0                    |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10348 | A | Release the red button 44S1 for<br>emergency brake                                        |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10349 | A | Put the direction selector switch in<br>NEUTRAL position and again in<br>FORWARD position |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10350 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0                                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10351 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0                                 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10352 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0                                |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10353 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0                                |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10354 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0                                |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10355 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0                                |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10356 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 0.0                      |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10357 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 0.0                      |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10358 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0                    |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                              |       |
|-------|---|------------------------------------------------------------------------|--|----|---|----------------------------------------------|-------|
| 10359 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10360 | A | Force [TT]<br>(MPU1)lo_drc_tc2tractionloopr2 = 0.0                     |  | OK |   | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10361 | A | Force [TT]<br>(MPU1)lo_drc_tc2tractionloopr1 = 1.0                     |  | OK |   | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10362 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10363 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10364 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10365 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10366 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10367 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10368 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10369 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10370 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10371 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10372 | A | Force [TT]<br>(MPU1)lo_drc_tc2tractionloopr2 = 1.0                     |  | OK |   | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10373 | A | Force [TT]<br>(MPU1)lo_drc_tc2tractionloopr1 = 0.0                     |  | OK |   | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10374 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10375 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10376 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |

|       |   |                                                                        |  |    |   |                                              |       |
|-------|---|------------------------------------------------------------------------|--|----|---|----------------------------------------------|-------|
| 10377 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10378 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10379 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10380 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10381 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 0.0   |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10382 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10383 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10384 | A | Force [TT]<br>(MPU1)lo_drc_tc2tractionloopr2 = 0.0                     |  | OK |   | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10385 | A | Force [TT]<br>(MPU1)lo_drc_tc2tractionloopr1 = 0.0                     |  | OK |   | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10386 | A | Put the direction selector switch in<br>NEUTRAL position               |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10387 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TlNotInhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10388 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10389 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10390 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 0.0             |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10391 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10392 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TlNotInhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10393 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |
| 10394 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025     | Train |

|       |   |                                                                        |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10395 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10396 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10397 | I | Traction Interlock Override TC2                                        |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10398 | A | Put the Traction Interlock switch 31S1 in<br>OVERRIDE position         |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10399 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10400 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10401 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10402 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 1.0 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10403 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 1.0 |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10404 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 1.0              |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10405 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10406 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10407 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10408 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhib = 1.0             |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10409 | A | Put the Traction Interlock switch 31S1 in<br>NORMAL position           |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10410 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnotinhib = 0.0              |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10411 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr1 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10412 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractionauthorr2 = 1.0   |  | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                            |  |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10413 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider1 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10414 | R | Read Defined Variable [TT]<br>(MPU1)li_drc_tc2tractintoverrider2 = 0.0     |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10415 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINotInhib = 0.0                  |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10416 | R | Read Defined Variable [TT]<br>(MPU1)TBCU1_TINotInhib = 0.0                 |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10417 | R | Read Defined Variable [TT]<br>(MPU1)TBCU2_tlnotinhb = 0.0                  |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10418 | R | Read Defined Variable [TT]<br>(MPU1)tbcu3_tlnotinhb = 0.0                  |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10419 | R | Read Defined Variable [TT]<br>(MPU1)tbcu4_tlnotinhb = 0.0                  |  | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10420 | A | Put the direction selector switch 30A1.S2<br>should be in NEUTRAL position |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10421 | I | End of Test                                                                |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|



## Section 20 – Deadman

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### 20.1 Instructions list

### 20.1.1 Deadman

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                               | File                                                                                | Result status | Result value | Operator                                 | Vehicle |
|-------|------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|------------------------------------------|---------|
| 10001 | I    | Deadman SPP = 060                                                                         |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                        |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10003 | I    | The Traction and Emergency test procedure must be completed prior to performing this test |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10004 | I    | Lamp 60H2 is OFF                                                                          |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10005 | I    | Master Controller is in Neutral position                                                  |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10006 | I    | No Driving Direction selected                                                             |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10007 | I    | Prepare train in LV ready with active cab on TC1                                          |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10008 | I    | Start of Test                                                                             |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10009 | I    | Deadman override TC1                                                                      |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10010 | R    | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1deadmanoverridr1 = 0.0                      |                                                                                     | OK            | 0            | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10011 | A    | Put the override switch 60S1 to OVERRIDE position                                         |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10012 | R    | Lamp 60H2 is "ON" on the alarm module                                                     |  | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10013 | R    | Verify that the Deadman override indication appears on the DDU screen                     |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10014 | R    | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1deadmanoverridr2 = 1.0                      |                                                                                     | OK            | 1            | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10015 | A    | Put the override switch 60S1 to NORMAL position                                           |                                                                                     | OK            |              | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |
| 10016 | R    | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1deadmanoverridr1 = 0.0                      |                                                                                     | OK            | 0            | Dilikani Ngubane<br>526515<br>17.11.2025 | Train   |

|       |   |                                                                                          |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10017 | R | Lamp 60H2 is OFF                                                                         |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10018 | I | Deadman by Master Controller TC1                                                         |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10019 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1deadmanr1 = 0.0                            |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10020 | A | Press the master controller Deadman switch 30A1.S4 and hold while reading variable below |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10021 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1deadmanr1 = 1.0                            |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10022 | A | Release the Master Controller switch 30A1.S4                                             |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1deadmanr1 = 0.0                            |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10024 | I | Deadman by button 60S3 TC1                                                               |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10025 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1deadmanr1 = 0.0                            |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10026 | A | Press the button 60S3 and hold it while reading variable below                           |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1deadmanr1 = 1.0                            |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10028 | A | Release the button 60S3                                                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10029 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1deadmanr1 = 0.0                            |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10030 | I | Deadman functional test TC1                                                              |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(MPU1)lo_dsd_tc1dmbuzzerr1 = 0.0                           |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)lo_dsd_tc1deadmanlampr1 = 0.0                        |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10033 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1ebdeadmanrelay1 = 0.0                      |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10034 | A | Select Driving Direction to FORWARD                                                      |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                                              |                                                                                     |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|---|------------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tneb = 0.0                                          |                                                                                     | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10036 | I | After 2.5 seconds buzzer starts beeping                                                      |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10037 | R | Lamp 60H1 is ON                                                                              |    | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)lo_dsd_tc1deadmanlampr1 = 1.0                            |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10039 | R | Read Defined Variable [TT]<br>(MPU1)lo_dsd_tc1dmbuzzerr1 = 1.0                               |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10040 | I | A constant push on the button 60S3 or<br>Master controller will result in Emergency<br>brake |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10041 | A | Press and hold down the master controller<br>for about 2s                                    |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10042 | R | Lamp 60H1 is OFF                                                                             |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10043 | R | No sound from buzzer                                                                         |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10044 | A | Release master controller                                                                    |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10045 | I | After 2.5 seconds buzzer starts beeping                                                      |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10046 | R | Lamp 60H1 is ON                                                                              |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10047 | A | Press and hold the button 60S3 for about<br>2s                                               |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10048 | R | Lamp 60H1 is OFF                                                                             |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10049 | R | No sound from buzzer                                                                         |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10050 | A | Release Deadman button 60S3                                                                  |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10051 | I | After 2.5 seconds buzzer starts beeping                                                      |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10052 | R | After 5 seconds, emergency brake is<br>applied                                               |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                                    |                                                                                     |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|---|------------------------------------------|-------|
| 10053 | R | Verify on the DDU that the Emergency brake by Deadman indication is ON             |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10054 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1ebdeadmanrelayr1 = 1.0               |                                                                                     | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10055 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnb = 0.0                                |                                                                                     | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10056 | A | Select Driving direction to NEUTRAL and FORWARD again to reset the emergency brake |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10057 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnb = 0.0                                |                                                                                     | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10058 | A | Press down the Master controller and hold                                          |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10059 | I | After 45s, emergency brake is applied                                              |    | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10060 | R | Verify on the DDU that the Emergency brake by Deadman indication is ON             |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10061 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc1ebdeadmanrelayr1 = 0.0               |                                                                                     | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10062 | A | Release the Master controller                                                      |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10063 | A | Select the driving direction to NEUTRAL position                                   |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10064 | R | Read Defined Variable [TT]<br>(MPU1)bcu1_tlnb = 0.0                                |                                                                                     | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10065 | A | Remove active cab on TC1                                                           |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10066 | I | Deadman Override TC2                                                               |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10067 | A | Active cab on TC2                                                                  |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10068 | I | Deadman override switch 60S1 must be in NORMAL position                            |                                                                                     | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10069 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2deadmanoverridr1 = 0.0               |                                                                                     | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10070 | A | Put the Deadman override switch 60S1 to OVERRIDE position                          |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                                          |  |    |   |                                          |       |
|-------|---|------------------------------------------------------------------------------------------|--|----|---|------------------------------------------|-------|
| 10071 | R | Verify on the DDU that the Deadman override indication is ON                             |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10072 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2deadmanoverridr1 = 1.0                     |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10073 | R | Lamp 60H2 is ON                                                                          |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10074 | A | Put the override switch 60S1 in NORMAL position                                          |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10075 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2deadmanoverridr1 = 0.0                     |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10076 | R | Lamp 60H2 is OFF                                                                         |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10077 | I | Deadman by Master Controller TC2                                                         |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10078 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2deadmanr2 = 0.0                            |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10079 | A | Press the master controller Deadman switch 30A1.S4 and hold while reading variable below |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10080 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2deadmanr2 = 1.0                            |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10081 | A | Release the master controller                                                            |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10082 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2deadmanr2 = 0.0                            |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10083 | I | Deadman by button 60S3 TC2                                                               |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10084 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2deadmanr1 = 0.0                            |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10085 | A | Press the button 60S3 and hold it while reading the variable below                       |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10086 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2deadmanr1 = 1.0                            |  | OK | 1 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10087 | A | Release the button 60S3                                                                  |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10088 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2deadmanr1 = 0.0                            |  | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |

|       |   |                                                                                              |                                                                                   |    |   |                                          |       |
|-------|---|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|---|------------------------------------------|-------|
| 10089 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2ebdeadmanrelay1 = 0.0                          |                                                                                   | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10090 | I | Deadman functional test TC2                                                                  |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10091 | R | Read Defined Variable [TT]<br>(MPU1)lo_dsd_tc2dmbbuzzerr1 = 0.0                              |                                                                                   | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10092 | R | Read Defined Variable [TT]<br>(MPU1)lo_dsd_tc2deadmanlampr1 = 0.0                            |                                                                                   | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10093 | A | Select Driving Direction to FORWARD                                                          |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10094 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINeb = 0.0                                         |                                                                                   | OK | 0 | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10095 | I | After 2.5 seconds buzzer starts beeping                                                      |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10096 | R | lamp 60H1 is ON                                                                              |  | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10097 | R | Verify on the DDU screen that the<br>Deadman active indication is ON                         |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>17.11.2025 | Train |
| 10098 | R | Read Defined Variable [TT]<br>(MPU1)lo_dsd_tc2deadmanlampr1 = 1.0                            |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10099 | R | Read Defined Variable [TT]<br>(MPU1)lo_dsd_tc2dmbbuzzerr1 = 1.0                              |                                                                                   | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10100 | I | A constant push on the button 60S3 or<br>Master controller will result in Emergency<br>brake |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10101 | A | Press and hold down the master controller<br>for about 2s                                    |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10102 | R | Lamp 60H1 is OFF                                                                             |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10103 | R | No sound from buzzer                                                                         |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10104 | A | Release the master controller                                                                |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10105 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINeb = 0.0                                         |                                                                                   | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10106 | R | After 2.5 seconds buzzer starts beeping                                                      |                                                                                   | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |

|       |   |                                                                                       |           |    |   |                                          |       |
|-------|---|---------------------------------------------------------------------------------------|-----------|----|---|------------------------------------------|-------|
| 10107 | R | After 5 seconds, emergency brake is applied                                           | <b>DM</b> | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10108 | R | Verify on the DDU screen that the emergency brake applied by Deadman indication is ON |           | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10109 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2ebdeadmanrelayr1 = 1.0                  |           | OK | 1 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10110 | A | Select Driving direction to NEUTRAL and FORWARD again to reset the emergency brake    |           | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10111 | R | Read Defined Variable [TT]<br>(MPU1)BCU2_TINeb = 0.0                                  |           | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10112 | A | Press down the Master controller and hold                                             |           | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10113 | R | After 45s, emergency brake is applied                                                 | <b>DM</b> | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10114 | R | Verify on the DDU that the Emergency brake by Deadman indication is ON                |           | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10115 | R | Read Defined Variable [TT]<br>(MPU1)li_dsd_tc2ebdeadmanrelayr1 = 0.0                  |           | OK | 0 | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10116 | A | Release the Master controller                                                         |           | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10117 | A | Select the driving direction to NEUTRAL position                                      |           | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |
| 10118 | I | End of test                                                                           |           | OK |   | Dilikani Ngubane<br>526515<br>18.11.2025 | Train |





|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 21 – Rescue Mode and Emergency Disconnection

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### 21.1 Instructions list

### 21.1.1 Rescue Mode and Emergency Disconnection

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                         | File                                                                                | Result status | Result value | Operator                             | Vehicle |
|-------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|--------------------------------------|---------|
| 10001 | I    | Rescue Mode and Emergency Disconnection = SPP 027                                   |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                  |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10003 | I    | Train in Normal mode with LV ready                                                  |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10004 | I    | Emergency brake is applied due to no direction selected on Train                    |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10005 | I    | The Blue button 27S5 must be released in TC1 and TC2                                |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10006 | I    | Start of Test                                                                       |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10007 | I    | Back-up Mode TC1                                                                    |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10008 | A    | Put the switch 27S1 in BACKUP position                                              |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10009 | R    | The TCMS is not available on the DDU screen                                         |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10010 | R    | Lamp 27H2 is ON                                                                     |  | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10011 | A    | Timer 60.0 S                                                                        |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10012 | R    | Both pantographs are raised                                                         |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10013 | R    | Both HSCBs are closed                                                               |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10014 | R    | Both ACUs are operational, sound can be heard from outside the train                |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10015 | R    | All four traction units are in operation, sound can be heard from outside the train |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |
| 10016 | R    | There is a gradual increase in the main pipe pressure                               |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>18.11.2025 | Train   |

|       |   |                                                               |  |    |  |                                      |       |
|-------|---|---------------------------------------------------------------|--|----|--|--------------------------------------|-------|
| 10017 | R | HVAC units are operational in all cars                        |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10018 | R | Emergency lighting is ON in all cars                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10019 | I | Emergency Disconnection TC1                                   |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10020 | A | Push the button 27S5 to disconnect pantographs and open HSCBs |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10021 | R | Both pantographs are lower and HSCBs are open                 |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10022 | A | Release the button 27S5                                       |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10023 | I | Traction authorization TC1                                    |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10024 | A | Put the direction selector switch in FORWARD position         |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10025 | R | TA is authorized                                              |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10026 | R | Lamp 31H1 is ON on the alarm module                           |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10027 | A | Put the direction selector switch in NEUTRAL position         |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10028 | R | TA is not authorized                                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10029 | R | Lamp 31H1 is OFF on the alarm module                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10030 | I | Doors Operation TC1                                           |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10031 | A | Press the auth button 50S5 to open left doors                 |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10032 | R | Check visually that all left doors are open                   |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10033 | A | Press the auth button 50S6 to open right doors                |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10034 | R | Check visually that all right doors are open                  |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                  |  |    |  |                                      |       |
|-------|---|------------------------------------------------------------------------------------------------------------------|--|----|--|--------------------------------------|-------|
| 10035 | A | Press the button 50S3 to close all the left doors                                                                |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10036 | R | Check visually that all left doors are closed                                                                    |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10037 | A | Press the button 50S4 to close all right doors                                                                   |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10038 | R | Check visually that all right doors are closed                                                                   |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10039 | I | Emergency Brake TC1                                                                                              |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10040 | A | Put the direction selector switch in FORWARD position                                                            |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10041 | A | Apply emergency brake using the red button 44S1                                                                  |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10042 | R | Emergency brake is applied, lamp 44H4 is ON                                                                      |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10043 | R | Verify the pressure of the brake cylinder on the pneumatic gauge on the driver's desk                            |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10044 | A | Release the emergency brake button 44S1                                                                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10045 | A | Put the direction selector switch in NEUTRAL position and again in FORWARD position to reset the emergency brake |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10046 | A | Apply emergency brake using by putting the Master Controller in Emergency brake position                         |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10047 | R | Emergency brake is applied, lamp 44H4 is ON                                                                      |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10048 | A | Put the Master controller in OFF position                                                                        |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10049 | A | Put the direction selector switch in NEUTRAL position                                                            |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10050 | A | Switch OFF the train by putting the switch 18S1 in OFF position                                                  |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10051 | A | Remove active cab on TC1                                                                                         |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10052 | I | Back-up Mode TC2                                                                                                 |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                     |                                                                                   |    |  |                                      |       |
|-------|---|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|--|--------------------------------------|-------|
| 10053 | R | Train is OFF                                                                        |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10054 | A | Active Cab on TC2                                                                   |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10055 | A | Switch ON the train using battery contactor 18S1                                    |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10056 | R | Train start-up in Normal mode, the TCMS is available on the DDU screen              |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10057 | A | Put the backup mode switch 27S1 in BACKUP position                                  |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10058 | R | The TCMS is no longer available on the DDU screen                                   |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10059 | R | Lamp 27H2 is ON                                                                     |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10060 | A | Timer 60.0 S                                                                        |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10061 | R | Both pantographs are raised                                                         |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10062 | R | Both HSCBs are closed                                                               |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10063 | R | Both ACUs are operational, sound can be heard from outside the train                |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10064 | R | All four traction units are in operation, sound can be heard from outside the train |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10065 | R | There is a gradual increase in the main pipe pressure                               |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10066 | R | HVAC units are operational in all cars                                              |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10067 | R | Emergency lighting is ON in all cars                                                |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10068 | I | Traction authorization TC2                                                          |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10069 | A | Put the direction selector switch in FORWARD position                               |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10070 | R | TA is authorized                                                                    |                                                                                   | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                         |  |    |  |                                      |       |
|-------|---|---------------------------------------------------------------------------------------------------------|--|----|--|--------------------------------------|-------|
| 10071 | R | Lamp 31H1 is "ON" on the alarm module                                                                   |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10072 | R | Relay 31K1 and 31K2 are energized                                                                       |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10073 | A | Put the direction selector switch in NEUTRAL position                                                   |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10074 | R | TA is not authorized                                                                                    |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10075 | R | Lamp 31H1 is OFF on the alarm module                                                                    |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10076 | R | Relay 31K1 and 31K2 are de-energized                                                                    |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10077 | I | Doors Operation TC2                                                                                     |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10078 | A | Press the auth button 50S5 to open left doors                                                           |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10079 | R | Check visually that all left doors are open                                                             |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10080 | A | Press the auth button 50S6 to open right doors                                                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10081 | R | Check visually that all right doors are open                                                            |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10082 | A | Press the button 50S3 to close all the left doors                                                       |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10083 | A | Put the direction selector switch in FORWARD position                                                   |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10084 | R | Check visually that all left doors are closed                                                           |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10085 | A | Press the button 50S4 to close all right doors                                                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10086 | R | Check visually that all right doors are closed                                                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10087 | I | Emergency Brake TC2                                                                                     |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10088 | A | Put the direction selector switch in NEUTRAL and again in FORWARD position to reset the emergency brake |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |

|       |   |                                                                                                                  |  |    |  |                                      |       |
|-------|---|------------------------------------------------------------------------------------------------------------------|--|----|--|--------------------------------------|-------|
| 10089 | A | Apply emergency brake using the red button 44S1                                                                  |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10090 | R | Verify the pressure of the brake cylinder on the pneumatic gauge on the driver's desk                            |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10091 | R | Release the emergency brake button 44S1                                                                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10092 | A | Apply emergency brake using by putting the Master controller is Emergency brake position                         |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10093 | R | Emergency brake is applied, lamp 44H4 is ON                                                                      |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10094 | A | Put the Master controller in OFF position                                                                        |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10095 | R | Emergency brake is applied                                                                                       |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10096 | A | Put the direction selector switch in NEUTRAL position and again in FORWARD position to reset the emergency brake |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10097 | I | Emergency Disconnection TC2                                                                                      |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10098 | A | Push the button 27S5 to disconnect pantographs and open HSCBs                                                    |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10099 | R | Both pantographs are lower and HSCBs are open                                                                    |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10100 | A | Release the button 27S5                                                                                          |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10101 | A | Put the direction selector switch in NEUTRAL position                                                            |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10102 | A | Switch OFF the train by putting the switch 18S1 in OFF position                                                  |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10103 | R | Train is OFF                                                                                                     |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10104 | A | Restart the train in Normal mode                                                                                 |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |
| 10105 | I | End of Test                                                                                                      |  | OK |  | TIVANI Angel<br>542257<br>18.11.2025 | Train |





|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
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## Section 22 – ERTMS

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### 22.1 Instructions list

## 22.1.1 ERTMS

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                                                                                | File                                                                                | Result status | Result value | Operator                                | Vehicle |
|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|-----------------------------------------|---------|
| 10001 | I    | ERTMS SPP=062                                                                                                                                                              |                                                                                     | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10002 | I    | Safety Precautions                                                                                                                                                         |                                                                                     | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10003 | R    | The ERTMS Warning Signs are attached in both ends underneath                                                                                                               |                                                                                     | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10004 | I    | No one should go near the Eurobalise Antennas during the test                                                                                                              |                                                                                     | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10005 | I    | EVC Mechanical Check + Software Upload <a href="#">[12-36-28-9-33-11-335692_ERTMS%20Unit%20Mechanical%20Check.pdf]</a>                                                     |    | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10006 | I    | Upload the ODE software using the following procedure. <a href="#">[12-37-51-9-34-27-335693_EVC%20Software%20Upload.pdf]</a>                                               |   | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10007 | I    | Upload the COMET software using the following procedure. <a href="#">[12-39-18-9-35-2-335694_COMET%20Upload%20SW%202.57%20or%20more.pdf]</a>                               |  | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10008 | A    | Record the serial number of the sim card insert the Sim Cards inside the GSM-R module MT1 and MT2: <a href="#">[12-41-30-9-35-48-335695_Sim%20Card%20Installation.pdf]</a> |  | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10009 | R    | Serial number for sim card installed on MT1Result Min :<br>99999<= x ()                                                                                                    |                                                                                     | NE            |              |                                         | Train   |
| 10010 | R    | Serial number for sim card installed on MT2Result Min :<br>99999<= x ()                                                                                                    |                                                                                     | NE            |              |                                         | Train   |
| 10011 | I    | ERTMS Complete Test                                                                                                                                                        |                                                                                     | OK            |              | Sizwe Sibanyoni<br>484647<br>20.11.2025 | Train   |
| 10012 | I    | Perform the complete static test using the following procedure: <a href="#">[247185_ERTMS Functional Test_Rev1.pdf]</a>                                                    |  | OK            |              | Sizwe Sibanyoni<br>484647<br>20.11.2025 | Train   |
| 10013 | R    | Static Test is complete                                                                                                                                                    |                                                                                     | OK            |              | Sizwe Sibanyoni<br>484647<br>20.11.2025 | Train   |
| 10014 | I    | ERTMS Functional Test                                                                                                                                                      |                                                                                     | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10015 | I    | The functional test should only be performed once ALL the software has been loaded and the Complete Test is done.                                                          |                                                                                     | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |
| 10016 | I    | ERTMS Bypass                                                                                                                                                               |                                                                                     | OK            |              | Sicelo Mtolo<br>525130<br>18.11.2025    | Train   |

|       |   |                                                                                                             |  |    |   |                                      |       |
|-------|---|-------------------------------------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10017 | A | Activate cab TC1                                                                                            |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10018 | A | Put the ERTMS isolation switch 62S1 in ISOLATION position                                                   |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10019 | R | The IOS 524 is generated to inform the driver that the ERTMS has been bypassed in LV1 cubicle on TC1 or TC2 |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10020 | R | Read Defined Variable [TT] (MPU1)li_ets_tc1ertmsbypassr1 = 1.0                                              |  | OK | 1 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10021 | R | Read Defined Variable [TT] (MPU1)li_ets_tc1ertmsbypassr2 = 1.0                                              |  | OK | 1 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10022 | R | ERTMS bypass led 62H1 is "ON" on alarm module                                                               |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10023 | R | ERTMS HMI is OFF on TC1                                                                                     |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10024 | R | ERTMS EVC unit is OFF                                                                                       |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10025 | R | The cold movement detector is ON                                                                            |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10026 | A | Put the direction selector switch in FORWARD position                                                       |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10027 | A | Put the Master controller in EMERGENCY BRAKE position                                                       |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT] UBK_EmgcyBrkApId = 1.0                                                           |  | OK | 1 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10029 | A | Put Master controller in OFF position                                                                       |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10030 | A | Put the direction selector switch in NEUTRAL position and again in FORWARD position                         |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT] UBK_EmgcyBrkApId = 0.0                                                           |  | OK | 0 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10032 | A | Put the direction selector switch in NEUTRAL position                                                       |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10033 | A | Put ERTMS isolation switch 62S1 in NORMAL position                                                          |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10034 | R | Read Defined Variable [TT] (MPU1)li_ets_tc1ertmsbypassr1 = 0.0                                              |  | OK | 0 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |

|       |   |                                                                               |  |    |   |                                      |       |
|-------|---|-------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10035 | R | Read Defined Variable [TT] (MPU1)li_ets_tc1ertmsbypassr2 = 0.0                |  | OK | 0 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10036 | R | ERTMS bypass led 62H1 is OFF on alarm module                                  |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10037 | R | ERTMS HMI is ON in TC1                                                        |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10038 | I | ERTMS Fault Monitoring (SPP M 62/13)                                          |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10039 | A | Open circuit breaker S01 on ERTMS -62A1 module                                |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10040 | A | In M2 car, open the circuit breaker 25Q6                                      |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10041 | A | Remove -62XP1_X06 connector                                                   |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10042 | A | In M2 car, close the circuit breaker 25Q6                                     |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10043 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmsdcdc = 0.0                     |  | OK | 0 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmscb = 0.0                       |  | OK | 0 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10045 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmstemp = 0.0                     |  | OK | 0 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10046 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmsfan = 0.0                      |  | OK | 0 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10047 | I | TEMPERATURE + FAN                                                             |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10048 | A | In M2 car, open the circuit breaker 25Q6                                      |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10049 | A | Apply a shunt between pins 42 and 60, pin 78 and 96 on - 62XP1_X06 connector. |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10050 | A | In M2 car, close the circuit breaker 25Q6                                     |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10051 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmstemp = 1.0                     |  | OK | 1 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10052 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmsfan = 1.0                      |  | OK | 1 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |

|       |   |                                                            |  |    |   |                                      |       |
|-------|---|------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10053 | A | In M2 car, open the circuit breaker 25Q6                   |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10054 | A | Remove all jumpers and put back the connector -62XP1_X06   |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10055 | A | In M2 car, close the circuit breaker 25Q6                  |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10056 | A | Close circuit breaker S01 on ERTMS -62A1 module            |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10057 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmsdc dc = 1.0 |  | OK | 1 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10058 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmstemp = 1.0  |  | OK | 1 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10059 | I | 110v/24v converters                                        |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10060 | A | Open circuit breaker S01 on ERTMS -62A1 module             |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10061 | A | In M2 car, open the circuit breaker 25Q6                   |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10062 | A | Remove one DC/DC power supply                              |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10063 | A | In M2 car, close the circuit breaker 25Q6                  |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10064 | A | Close circuit breaker S01 on ERTMS -62A1 module            |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10065 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmsdc dc = 0.0 |  | OK | 0 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10066 | A | Open circuit breaker S01 on ERTMS -62A1 module             |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10067 | A | In M2 car, open the circuit breaker 25Q6                   |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10068 | A | Put back the DC/DC power supply                            |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10069 | I | INTERNAL CIRCUIT BREAKERS                                  |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10070 | A | In M2 car, close the circuit breaker 25Q6                  |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |

|       |   |                                                                              |  |    |   |                                      |       |
|-------|---|------------------------------------------------------------------------------|--|----|---|--------------------------------------|-------|
| 10071 | A | Close circuit breaker S01 on ERTMS -62A1 module                              |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10072 | A | Open circuit breaker F01 and close all other circuit breakers from F02 - F20 |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10073 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmscb = 0.0                      |  | OK | 0 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10074 | A | Close circuit breaker F01 on ERTMS -62A1 module                              |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10075 | R | Read Defined Variable [TT] (MPU1)li_ets_m2ertmscb = 1.0                      |  | OK | 1 | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10076 | A | Open circuit breaker S01 on ERTMS -62A1 module                               |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10077 | R | ERTMS EVC unit is OFF                                                        |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10078 | A | Normalize everything inside LV4 and leave all circuit breakers closed.       |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |
| 10079 | I | End of Test                                                                  |  | OK |   | Sicelo Mtolo<br>525130<br>18.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
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## Section 23 – On-board train data recorder

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### 23.1 Instructions list

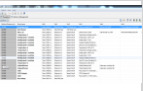
### 23.1.1 OTDR

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                        | File                                                                              | Result status | Result value | Operator                                 | Vehicle |
|-------|------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|--------------|------------------------------------------|---------|
| 10001 | I    | Event Recorder SPP= 061                                                                            |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                                 |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10003 | I    | Software must be updated in the OTDR with the latest baseline following below procedure            |  | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10004 | I    | Software must be updated in the CPM according to the latest baseline following the below procedure |  | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10005 | I    | Train should be OFF                                                                                |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10006 | I    | Start of Test                                                                                      |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10007 | A    | Prepare the train with active cabin on TC1                                                         |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10008 | R    | Read Defined Variable [TT]<br>PNT_AllPantoRaised = 1.0                                             |                                                                                   | OK            | 1            | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10009 | R    | Read Defined Variable [TT]<br>HSC_HscbClosedNum = 2.0                                              |                                                                                   | OK            | 2            | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10010 | I    | Speedometer Test TC1                                                                               |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10011 | A    | Remove Active Cabin on TC1 and activate it again                                                   |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10012 | R    | The speedometer indicator jumps from 0km/h to 200km/h and back within 3s                           |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10013 | R    | Speedometer lamp is ON                                                                             |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10014 | A    | Force [TT]<br>(MPU1)lo_rec_tc2speedindtest = 1.0                                                   |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10015 | R    | The speedometer indicator jumps from 0km/h to 200km/h and back within 3s                           |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |
| 10016 | A    | Release [TT]<br>(MPU1)lo_rec_tc2speedindtest                                                       |                                                                                   | OK            |              | Sthabile Dlamini<br>418538<br>19.11.2025 | Train   |

|       |   |                                                                             |  |    |  |                                          |       |
|-------|---|-----------------------------------------------------------------------------|--|----|--|------------------------------------------|-------|
| 10017 | I | OTDR Reset                                                                  |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10018 | I | When OTDR is resetting, the power supply LED will go OFF and ON             |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10019 | A | Force [TT] (MPU1)lo_ets_tc2rstotdrr1 = 1.0                                  |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10020 | A | Force [TT] (MPU1)lo_ets_tc2rstotdrr2 = 1.0                                  |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10021 | R | OTDR is OFF                                                                 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10022 | I | During OTDR reset, the driver receives a warning about a loss in the OTDR.  |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10023 | A | Release [TT] (MPU1)lo_ets_tc2rstotdrr1                                      |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10024 | A | Release [TT] (MPU1)lo_ets_tc2rstotdrr2                                      |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10025 | I | OTDR is ON and reset                                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10026 | I | Data Recording                                                              |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10027 | I | Please note the time one the DDU screen before performing the actions below |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10028 | A | Put the Traction Interlock Switch 31S1 in OVERRIDE position                 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10029 | A | Put the Traction Interlock Switch 31S1 in NORMAL position                   |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10030 | A | Pull any PEA on train                                                       |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10031 | A | Acknowledge the PEA using the button 54S3                                   |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10032 | A | Reset PEA using Switch 44S6                                                 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10033 | A | Put the emergency brake loop override switch 44S2 in BYPASS position        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10034 | A | Put the emergency brake loop override switch 44S2 in NORMAL position        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                                                       |  |    |  |                                          |       |
|-------|---|-------------------------------------------------------------------------------------------------------|--|----|--|------------------------------------------|-------|
| 10035 | A | Open HSCB using 22S12                                                                                 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10036 | A | Put the Direction Selector Switch in FORWARD position                                                 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10037 | A | Put the Direction Selector Switch in NEUTRAL position                                                 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10038 | A | Put the Direction Selector Switch in REVERSE position                                                 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10039 | A | Put the Driving Mode Switch to COUPLE/WASH mode                                                       |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10040 | A | Before the next step verify that the HSCB is OPEN on the DDU - There is a risk of train movement      |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10041 | A | Put the Master Controller in TRACTION position                                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10042 | A | Put the Master Controller in BRAKE position                                                           |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10043 | A | Put the Master Controller in OFF position                                                             |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10044 | A | Put the Direction Selector Switch in NEUTRAL position                                                 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10045 | A | Push the RED Emergency brake button 44S1                                                              |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10046 | A | Release Emergency brake button                                                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10047 | A | Put the Door authorization Selector Switch 50S7 in DRIVER position                                    |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10048 | A | Press the right door authorization button 50S6                                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10049 | A | Press the right door open button 50S2 again and then close the door the right doors using button 50S4 |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10050 | A | Press the left door authorization button 50S5                                                         |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10051 | A | Press the left door open button 50S1 again and then close the door the left doors using button 50S3   |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10052 | A | Put the Door authorization Selector Switch 50S7 in ERTMS position                                     |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                                                                                                                                                               |                                                                                     |    |  |                                              |       |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--|----------------------------------------------|-------|
| 10053 | A | Put the ERTMS isolation switch 62S1 in ISOLATION position                                                                                                                                                     |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10054 | A | Put the ERTMS isolation switch 62S1 in NORMAL position                                                                                                                                                        |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10055 | A | Note the time on the DDU                                                                                                                                                                                      |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10056 | A | Put the backup mode switch 27S1 in BACKUP position                                                                                                                                                            |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10057 | A | Switch OFF the train on TC1 cab                                                                                                                                                                               |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10058 | A | Put the backup Mode switch in NORMAL position                                                                                                                                                                 |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10059 | A | Switch active cab to TC2                                                                                                                                                                                      |                                                                                     | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10060 | I | Events download                                                                                                                                                                                               |                                                                                     | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10061 | A | Switch ON the train from TC2 side                                                                                                                                                                             |                                                                                     | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10062 | A | Note the time on the DDU                                                                                                                                                                                      |                                                                                     | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10063 | I | Use the time noted down before and after recording the data to check the events                                                                                                                               |                                                                                     | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10064 | A | Connect to the OTDR via TCMS network and download the two latest events files. See the manual below                                                                                                           |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10065 | A | Connect to the CPM front face RJ45 port and download the latest events file. See the manual below                                                                                                             |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10066 | I | Data Recorded Reading                                                                                                                                                                                         |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10067 | A | Use SAM5 build 81 software to read data recorded from the OTDR. For the CPM use SAM5 build 88                                                                                                                 |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10068 | I | The recorded data must be in the sequence as logged above. NB time for activation and deactivation of each input must be within the time at which the test was performed. See example below for recorded data |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10069 | R | CAB TC1 ACTIVE: ON                                                                                                                                                                                            |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025     | Train |
| 10070 | R | CAB TC2 ACTIVE: OFF                                                                                                                                                                                           |                                                                                     | OK |  | Sthabile Dlamini<br>418538                   | Train |

|       |   |                                       |  |    |  |                                          |       |
|-------|---|---------------------------------------|--|----|--|------------------------------------------|-------|
|       |   |                                       |  |    |  | 19.11.2025                               |       |
| 10071 | R | TRACTION INTERLOCK BYPASS: ON         |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10072 | R | TRACTION INTERLOCK BYPASS: OFF        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10073 | R | BRAKE APPLIED: ON                     |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10074 | R | PEA LOOP(OTDR): OFF                   |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10075 | R | PEA LOOP(OTDR): ON                    |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10076 | R | EMERGENCY BRAKE LOOP OVERRIDE:<br>OFF |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10077 | R | EMERGENCY BRAKE LOOP OVERRIDE:<br>ON  |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10078 | R | FORWARD: ON                           |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10079 | R | TRACTION: ON                          |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10080 | R | BRAKE APPLIED: OFF                    |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10081 | R | NO BRAKE: ON                          |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10082 | R | NO BRAKE: OFF                         |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10083 | R | FORWARD: OFF                          |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10084 | R | TRACTION: OFF                         |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10085 | R | REVERSE: OFF                          |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10086 | R | REVERSE: ON                           |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10087 | R | EMERGENCY BRAKE TRAINLINE: OFF        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10088 | R | EMERGENCY BRAKE TRAINLINE: ON         |  | OK |  | Sthabile Dlamini<br>418538               | Train |

|       |   |                                                                                                                                                                                                                                           |  |    |  |                                          |       |
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|       |   |                                                                                                                                                                                                                                           |  |    |  | 19.11.2025                               |       |
| 10089 | R | DOOR AUTH LEFT TRAINLINE: OFF                                                                                                                                                                                                             |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10090 | R | DOOR AUTH LEFT TRAINLINE: ON                                                                                                                                                                                                              |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10091 | R | DOOR AUTH RIGHT TRAINLINE: ON                                                                                                                                                                                                             |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10092 | R | DOOR AUTH RIGHT TRAINLINE: OFF                                                                                                                                                                                                            |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10093 | R | ERTMS BYPASS: OFF                                                                                                                                                                                                                         |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10094 | R | ERTMS BYPASS: ON                                                                                                                                                                                                                          |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10095 | R | BACKUP MODE: OFF                                                                                                                                                                                                                          |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10096 | R | BACKUP MODE: ON                                                                                                                                                                                                                           |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10097 | R | CAB TC1 ACTIVE: OFF                                                                                                                                                                                                                       |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10098 | R | CAB TC2 ACTIVE: ON                                                                                                                                                                                                                        |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10099 | A | Save all the downloaded files from CPM and OTDR and put them in a folder named "TSXXX_OTDR." Then save the folder to "teams" channel (shift reports) under a specific trainset folder TSXX>Results files> Train level.<br>XX=train number |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10100 | I | Speedometer Test TC2                                                                                                                                                                                                                      |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10101 | A | Remove active cab on TC2 and activate it again                                                                                                                                                                                            |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10102 | R | The speedometer indicator jumps from 0km/h to 200km/h and back within 3s                                                                                                                                                                  |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10103 | R | Speedometer lamp is ON                                                                                                                                                                                                                    |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10104 | A | Force [TT]<br>(MPU1)lo_rec_tc2speedindtest = 1.0                                                                                                                                                                                          |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |

|       |   |                                                                              |                                                                                     |    |  |                                          |       |
|-------|---|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--|------------------------------------------|-------|
| 10105 | R | The speedometer indicator jumps from 0km/h to 200km/h and back within 3s     |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10106 | R | Speedometer lamp is ON                                                       |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10107 | A | Release [TT]<br>(MPU1)lo_rec_tc2speedindtest                                 |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10108 | I | OTDR settings                                                                |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10109 | A | Force [TT]<br>(MPU2)_REC_TravelledDistanceKm = 10.0                          |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10110 | A | Force [TT]<br>(MPU2)_REC_TravelledDistanceKm = 10.0                          |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10111 | R | The total distance on the odometer of the DDU screen is 10km                 |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10112 | A | Release [TT]<br>(MPU1)_REC_TravelledDistanceKm                               |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10113 | A | Release [TT]<br>(MPU2)_REC_TravelledDistanceKm                               |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10114 | A | Configure the OTDR and Data plug according to the settings in the file below |  | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10115 | R | Train UIC is set to 0120XXX                                                  |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10116 | R | The Wheel diameter is set to 840mm on the DDU Driver screen                  |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |
| 10117 | I | End of Test                                                                  |                                                                                     | OK |  | Sthabile Dlamini<br>418538<br>19.11.2025 | Train |





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|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 24 – External lights and Signaling

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### 24.1 Instructions list

### 24.1.1 External Visibility

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                | File                                                                                | Result status | Result value | Operator                                | Vehicle |
|-------|------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|-----------------------------------------|---------|
| 10001 | I    | External Visibility SPP=072                                                                |                                                                                     | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10002 | I    | Initial Conditions                                                                         |                                                                                     | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10003 | I    | The air in the main should be at least 7.5bar                                              |                                                                                     | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10004 | I    | Start of Test                                                                              |                                                                                     | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10005 | I    | Windscreen wiper TC1                                                                       |                                                                                     | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10006 | A    | Active cab on TC1                                                                          |                                                                                     | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10007 | A    | Load the software on the TC1 wiper                                                         |  | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10008 | I    | Washer tank is empty                                                                       |                                                                                     | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10009 | R    | The IOS for low level on water tank appears on the Driver's event list                     |                                                                                     | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10010 | R    | Read Defined Variable [TT]<br>(MPU1)li_sgl_tc1washerlevel = 0.0                            |                                                                                     | OK            | 0            | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10011 | A    | Fill up the washer tank with clean water                                                   |                                                                                     | OK            |              | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10012 | R    | Read Defined Variable [TT]<br>(MPU1)li_sgl_tc1washerlevel = 1.0                            |                                                                                     | OK            | 1            | Sinazo Mkhwa<br>529940<br>17.11.2025    | Train   |
| 10013 | R    | No IOS regarding low water level on Driver's event list                                    |                                                                                     | OK            |              | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train   |
| 10014 | I    | This test is to verify that the Wiper is centred <a href="#">[302788_Wiper system.pdf]</a> |  | OK            |              | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train   |
| 10015 | A    | Put the wiper switch on Wash position                                                      |                                                                                     | OK            |              | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train   |
| 10016 | R    | Water is spraying on the windscreen; the wiper is cleaning the windscreen                  |                                                                                     | OK            |              | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train   |

|       |   |                                                                                                                                         |                                                                                   |    |   |                                         |       |
|-------|---|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|---|-----------------------------------------|-------|
| 10017 | A | Put the wiper switch to intermittent position                                                                                           |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10018 | R | The wiper is operating properly on intermittent position                                                                                |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10019 | A | Put the wiper switch to low speed position                                                                                              |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10020 | R | The wiper is operating properly on low speed                                                                                            |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10021 | A | Put the wiper switch to high speed position                                                                                             |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10022 | R | Verify that the wiper does not lie too much on the left or right                                                                        |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10023 | A | Verify that the area wiped is at least as shown in the image attached                                                                   |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10024 | A | Put the swiper switch on OFF position                                                                                                   |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10025 | R | Wiper stops, no water is spraying on windscreen                                                                                         |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10026 | I | Mirrors TC1                                                                                                                             |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10027 | A | Login as a Maintainer ID: 70979080                                                                                                      |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10028 | I | It is necessary to open and close each mirror several times to ensure that it is working properly                                       |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10029 | A | Press the DOOR AUTH left button 50S5                                                                                                    |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10030 | A | Turn the switch 70S10 to the left to open the left mirror                                                                               |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10031 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc1LeftMirror = 1.0                                                                          |                                                                                   | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10032 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc1RightMirror = 0.0                                                                         |                                                                                   | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10033 | A | Check visually that the mirror is open wide enough to show the whole platform and image is not blurry when sitting on the driver's seat |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10034 | R | Verify that there is no leak on the mirror's pneumatic piping                                                                           |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |

|       |   |                                                                                                                                         |  |    |   |                                                  |       |
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| 10035 | A | Press 50S3 left door close button                                                                                                       |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10036 | R | The mirror is properly closed                                                                                                           |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10037 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc1LeftMirror = 0.0                                                                          |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10038 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc1RightMirror = 0.0                                                                         |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10039 | A | Press the DOOR AUTH right button 50S6                                                                                                   |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10040 | A | Turn the switch 70S10 to the right to open the right mirror                                                                             |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10041 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc1LeftMirror = 0.0                                                                          |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10042 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc1RightMirror = 1.0                                                                         |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10043 | A | Check visually that the mirror is open wide enough to show the whole platform and image is not blurry when sitting on the driver's seat |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10044 | R | Verify that there is no leak on the mirror's pneumatic piping                                                                           |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10045 | A | Press 50S4 right door close button                                                                                                      |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10046 | R | The mirror is properly closed                                                                                                           |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10047 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc1LeftMirror = 0.0                                                                          |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10048 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc1RightMirror = 0.0                                                                         |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10049 | A | Press the DOOR AUTH left button 50S5                                                                                                    |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10050 | A | Force [TT] (MPU1)lo_sgl_tc1leftmirror = 1.0                                                                                             |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10051 | R | Left mirror is open                                                                                                                     |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10052 | A | Force [TT] (MPU1)lo_sgl_tc1leftmirror = 0.0                                                                                             |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |

|       |   |                                                                                |                                                                                     |    |  |                                         |       |
|-------|---|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--|-----------------------------------------|-------|
| 10053 | R | Left mirror closes                                                             |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10054 | A | Press the DOOR AUTH right button 50S6                                          |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10055 | A | Force [TT] (MPU1)lo_sgl_tc1rightmirror = 1.0                                   |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10056 | R | Right mirror opens                                                             |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10057 | A | Force [TT] (MPU1)lo_sgl_tc1rightmirror = 0.0                                   |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10058 | R | Right mirror closes                                                            |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10059 | A | Press the button 50S3 and 50S4 to reset door authorization                     |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10060 | A | Release [TT] (MPU1)lo_sgl_tc1leftmirror                                        |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10061 | A | Release [TT] (MPU1)lo_sgl_tc1rightmirror                                       |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10062 | A | Isolate the valve H1.5/1 and H1.5/2                                            |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10063 | R | Check that the left and right mirrors can be folded manually                   |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10064 | A | Normalise the valve H1.5/1 and H1.5/2                                          |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10065 | A | Login on the DDU screen using the driver's code 70787878                       |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10066 | A | Go to Command Screen                                                           |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10067 | A | Authorise OPEN DOOR LEFT and RIGHT using the button 50S5 and 50S6 respectively |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10068 | A | On the DDU Command screen, open the left mirror using the virtual button       |  | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10069 | R | Left mirror opens                                                              |                                                                                     | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |
| 10070 | A | Press virtual button to open right mirror                                      |  | OK |  | Sizwe Sibanyoni<br>484647<br>18.11.2025 | Train |

|       |   |                                                                                            |                                                                                     |    |   |                                                  |       |
|-------|---|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|---|--------------------------------------------------|-------|
| 10071 | R | Right mirror opens                                                                         |                                                                                     | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10072 | A | Press the button 50S3 and 50S4 to reset door authorization                                 |                                                                                     | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10073 | R | Both mirrors close                                                                         |                                                                                     | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10074 | A | Remove active cab on TC1                                                                   |                                                                                     | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10075 | I | External visibility TC2                                                                    |                                                                                     | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025             | Train |
| 10076 | I | Windscreen wiper TC2                                                                       |                                                                                     | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025             | Train |
| 10077 | A | Active cab on TC2                                                                          |                                                                                     | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025             | Train |
| 10078 | I | Load the software on the TC2 wiper                                                         |    | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025             | Train |
| 10079 | I | Washer tank is empty                                                                       |                                                                                     | OK |   | Sinazo Mkhwa<br>529940<br>17.11.2025             | Train |
| 10080 | R | The IOS for low level on water tank appears on the Driver's event list                     |                                                                                     | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10081 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2WasherLevel = 0.0                            |                                                                                     | OK | 0 | Sinazo Mkhwa<br>529940<br>17.11.2025             | Train |
| 10082 | A | Fill up the washer tank with clean water                                                   |                                                                                     | OK |   | Tshembhani Khosa<br>446920<br>20.11.2025         | Train |
| 10083 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2WasherLevel = 1.0                            |                                                                                     | OK | 1 | Sinazo Mkhwa<br>529940<br>17.11.2025             | Train |
| 10084 | R | No IOS regarding low water level on Driver's event list                                    |                                                                                     | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10085 | I | This test is to verify that the Wiper is centred <a href="#">[302789_Wiper system.pdf]</a> |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10086 | A | Put the swiper switch on Wash position                                                     |                                                                                     | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10087 | R | Water is spraying on the windscreen, the wiper is cleaning the windscreen                  |                                                                                     | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10088 | A | Put the wiper switch to intermittent position                                              |                                                                                     | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |

|       |   |                                                                                                                                         |                                                                                   |    |   |                                                  |       |
|-------|---|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|---|--------------------------------------------------|-------|
| 10089 | R | The wiper is operating properly on intermittent position                                                                                |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10090 | A | Put the wiper switch to low speed position                                                                                              |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10091 | R | The wiper is operating properly on low speed                                                                                            |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10092 | A | Put the wiper switch to high speed position                                                                                             |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10093 | A | Verify that the wiper does not lie too much on the left or right                                                                        |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10094 | R | Verify that the area wiped is at least as shown in the image above                                                                      |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10095 | A | Put the wiper switch on OFF position                                                                                                    |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10096 | R | Wiper stops, no water is spraying on windscreen                                                                                         |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10097 | I | Mirrors TC2                                                                                                                             |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10098 | A | Login as a Driver. ID:70787878                                                                                                          |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10099 | I | It is necessary to open and close each mirror several times to ensure that it is working properly                                       |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10100 | A | Press the DOOR AUTH left button 50S5                                                                                                    |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10101 | A | Turn the switch 70S10 to the left to open the left mirror                                                                               |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2LeftMirror = 1.0                                                                          |                                                                                   | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10103 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2RightMirror = 0.0                                                                         |                                                                                   | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10104 | A | Check visually that the mirror is open wide enough to show the whole platform and image is not blurry when sitting on the driver's seat |                                                                                   | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10105 | R | Verify that there is no leak on the mirror's pneumatic piping                                                                           |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10106 | A | Press 50S3 left door close button                                                                                                       |                                                                                   | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |



|       |   |                                                                                                                                         |  |    |   |                                                  |       |
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| 10107 | R | The mirror is properly closed                                                                                                           |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10108 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2LeftMirror = 0.0                                                                          |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10109 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2RightMirror = 0.0                                                                         |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10110 | A | Press the DOOR AUTH right button 50S6                                                                                                   |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10111 | A | Turn the switch 70S10 to the right to open the right mirror                                                                             |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10112 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2LeftMirror = 0.0                                                                          |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10113 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2RightMirror = 1.0                                                                         |  | OK | 1 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10114 | A | Check visually that the mirror is open wide enough to show the whole platform and image is not blurry when sitting on the driver's seat |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10115 | R | Verify that there is no leak on the mirror's pneumatic piping                                                                           |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10116 | A | Press 50S4 right door close button                                                                                                      |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10117 | R | The mirror is properly closed                                                                                                           |  | OK |   | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10118 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2LeftMirror = 0.0                                                                          |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10119 | R | Read Defined Variable [TT]<br>(MPU1)Li_SGL_Tc2RightMirror = 0.0                                                                         |  | OK | 0 | Sizwe Sibanyoni<br>484647<br>18.11.2025          | Train |
| 10120 | A | Press the DOOR AUTH left button 50S5                                                                                                    |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10121 | A | Force [TT] (MPU1)lo_sgl_tc2leftmirror = 1.0                                                                                             |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10122 | R | Left mirror is open                                                                                                                     |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10123 | A | Force [TT] (MPU1)lo_sgl_tc2leftmirror = 0.0                                                                                             |  | OK |   | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |

|       |   |                                                              |  |    |  |                                                  |       |
|-------|---|--------------------------------------------------------------|--|----|--|--------------------------------------------------|-------|
| 10124 | R | Left mirror closes                                           |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10125 | A | Press the DOOR AUTH right button 50S6                        |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10126 | A | Force [TT] (MPU1)lo_sgl_tc2rightmirror = 1.0                 |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10127 | R | Right mirror opens                                           |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10128 | A | Force [TT] (MPU1)lo_sgl_tc2rightmirror = 0.0                 |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10129 | R | Right mirror closes                                          |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10130 | A | Release [TT] (MPU1)lo_sgl_tc2leftmirror                      |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10131 | A | Release [TT] (MPU1)lo_sgl_tc2rightmirror                     |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10132 | A | Press the button 50S3 and 50S4 to reset door authorization   |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10133 | A | Isolate the valve H1.5/1 and H1.5/2                          |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10134 | A | Check that the left and right mirrors can be folded manually |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10135 | A | Normalise the valve H1.5/1 and H1.5/2                        |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10136 | A | Login on the DDU screen using the driver's code 70787878     |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10137 | A | Go to Command Screen                                         |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |

|       |   |                                                                                |                                                                                   |    |  |                                                  |       |
|-------|---|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|--|--------------------------------------------------|-------|
| 10138 | A | Authorise OPEN DOOR LEFT and RIGHT using the button 50S5 and 50S6 respectively |                                                                                   | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10139 | A | On the DDU Command screen, open the left mirror using the virtual button       |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10140 | R | Left mirror opens                                                              |                                                                                   | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10141 | A | Press virtual button to open right mirror                                      |  | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10142 | R | Right mirror opens                                                             |                                                                                   | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10143 | A | Press the button 50S2 and 50S4 to close the left and right doors               |                                                                                   | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10144 | R | Both mirrors close                                                             |                                                                                   | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10145 | I | End of test                                                                    |                                                                                   | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |



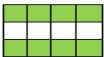
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|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 25 – Train Ground Communication

### 25.1 Instructions list

#### 25.1.1 Netbox

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                                                                                                                                                                                  | File                                                                                | Result status | Result value         | Operator                                 | Vehicle |
|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|----------------------|------------------------------------------|---------|
| 10001 | I    | 064 Netbox                                                                                                                                                                                                                                                                   |                                                                                     | OK            |                      | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10002 | I    | Software upload                                                                                                                                                                                                                                                              |                                                                                     | OK            |                      | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10003 | I    | Use the below procedure to install the software on the Netbox(M1)                                                                                                                                                                                                            |                                                                                     | OK            |                      | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10004 | A    | -Open the NBX (64Q1) circuit breaker<br>-Insert the programmed USB into the slot<br>-Close the NBX (64Q1) circuit breaker<br>-Device is on and software upload begins<br><br>Upload is complete when all LEDs on rows A and C are steady, on and green as the image attached |  | OK            |                      | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10005 | I    | Netbox configuration check                                                                                                                                                                                                                                                   |                                                                                     | OK            |                      | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10006 | R    | Insert the Sim Card Serial Number that is below the barcode. Refer to the picture attached.Result Min : 1<= x ()                                                                                                                                                             |  | OK            | 89460000000027025717 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10007 | A    | Perform the attached procedure to configure the Netbox (M1)                                                                                                                                                                                                                  |  | OK            |                      | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10008 | R    | The Netbox is configured correctly                                                                                                                                                                                                                                           |                                                                                     | OK            |                      | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10009 | R    | The time and date on the DDU is correct - if not restart the train and verify again                                                                                                                                                                                          |                                                                                     | OK            |                      | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |

## 25.1.2 UHF and GSM Radio

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                                  | File | Result status | Result value         | Operator                                         | Vehicle |
|-------|------|------------------------------------------------------------------------------------------------------------------------------|------|---------------|----------------------|--------------------------------------------------|---------|
| 10001 | I    | GSMR Radio SPP=065                                                                                                           |      | OK            |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10002 | I    | GSMR - Functional Test TC1                                                                                                   |      | OK            |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10003 | R    | Record the serial number of the sim card and install the sim card on GSMR radio<br>Result Min : 99999<= x ()                 |      | OK            | 89260420160520003738 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10004 | A    | Insert the SIM card into the GSMR Radio                                                                                      |      | OK            |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10005 | R    | Ensure the GSM Sim card has been inserted into the GSMR Radio, and there is no red flashing light close to the sim card slot |      | OK            |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10006 | A    | On the GSMR HMI, verify radio is not faulty                                                                                  |      | OK            |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10007 | A    | Active cab in TC1                                                                                                            |      | OK            |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10008 | I    | DDU-HMI Connection                                                                                                           |      | OK            |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10009 | A    | Check if TCMS DDU and GSMR-HMI times are automatically synchronised - do not manually set the time                           |      | OK            |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10010 | R    | The time is the same (allowable difference of <10s)                                                                          |      | OK            |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train   |
| 10011 | I    | PACIS-HMI Connection                                                                                                         |      | OK            |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train   |
| 10012 | A    | Lift the GSMR handset                                                                                                        |      | OK            |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train   |
| 10013 | A    | Press the PA button on the GSMR HMI                                                                                          |      | OK            |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train   |

|                                     |       |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
|-------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|--------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|--|--------------------------------------------------|-------|
| 10014                               | R     | On the GSMR module PAI card, the Red and Ack LEDs light green                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | TIVANI Angel<br>542257<br>20.11.2025             | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10015                               | R     | The PA indication alarm sounds in all cars                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | TIVANI Angel<br>542257<br>20.11.2025             | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10016                               | A     | Press the PTT on the handset and speak into the handset microphone                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | TIVANI Angel<br>542257<br>20.11.2025             | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10017                               | R     | Text displayed on the HMI: "Talk!"                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | TIVANI Angel<br>542257<br>20.11.2025             | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10018                               | R     | Your voice can be heard clearly in all the cars                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | TIVANI Angel<br>542257<br>20.11.2025             | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10019                               | I     | UHF Radio Test TC1                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10020                               | A     | Enter each mission number below on the attached picture and press select on the UHF handheld                                                                                 | <table><tr><td colspan="4">UHF RADIO Train Number for Pretoria</td></tr><tr><td>00001</td><td>91011</td><td>44011</td><td>18011</td></tr><tr><td>00041</td><td>91041</td><td>44051</td><td>18041</td></tr><tr><td>00051</td><td>91051</td><td>44061</td><td>18051</td></tr><tr><td>00061</td><td>91061</td><td>44071</td><td>18071</td></tr><tr><td>00071</td><td>91071</td><td>44081</td><td>18081</td></tr></table> | UHF RADIO Train Number for Pretoria |  |                                                  |       | 00001 | 91011 | 44011 | 18011 | 00041 | 91041 | 44051 | 18041 | 00051 | 91051 | 44061 | 18051 | 00061 | 91061 | 44071 | 18071 | 00071 | 91071 | 44081 | 18081 | OK |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| UHF RADIO Train Number for Pretoria |       |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 00001                               | 91011 | 44011                                                                                                                                                                        | 18011                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 00041                               | 91041 | 44051                                                                                                                                                                        | 18041                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 00051                               | 91051 | 44061                                                                                                                                                                        | 18051                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 00061                               | 91061 | 44071                                                                                                                                                                        | 18071                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 00071                               | 91071 | 44081                                                                                                                                                                        | 18081                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10021                               | R     | The Radio displays the selected number eg "D 9104" and the network bars are visible                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10022                               | A     | To test the next number, press and hold the off button to switch off the handheld and switch on the handheld again, then enter the new number.                               |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10023                               | R     | All mission numbers on the above picture are tested ok                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10024                               | I     | DSD ALERT                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10025                               | A     | Ensure that Deadman is not overridden, and set the direction switch to Forward position                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10026                               | R     | The deadman sound should be left audible, until the GSMR HMI reports DSD Alert! and the GSMR buzzer can be heard                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10027                               | A     | Put the direction switch on neutral position and press the master controller to cancel the deadman sound. Press key number 10 on the GSMR HMI to cancel the DSD Alert sound. |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |
| 10028                               | I     | GSMR - Functional Test TC2                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649               | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                                  |       |

|       |   |                                                                                                                              |  |    |                      |                                                  |       |
|-------|---|------------------------------------------------------------------------------------------------------------------------------|--|----|----------------------|--------------------------------------------------|-------|
|       |   |                                                                                                                              |  |    |                      | 19.11.2025                                       |       |
| 10029 | A | Active Cab in TC2                                                                                                            |  | OK |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10030 | R | Record the serial number of the sim card and install the sim card on GSMR radio<br>Result Min : 99999<= x ()                 |  | OK | 89260420160520003864 | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10031 | A | Insert the SIM card into the GSMR Radio                                                                                      |  | OK |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10032 | R | Ensure the GSM Sim card has been inserted into the GSMR Radio, and there is no red flashing light close to the sim card slot |  | OK |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10033 | A | On the GSMR HMI, verify radio is not faulty                                                                                  |  | OK |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10034 | I | DDU-HMI Connection                                                                                                           |  | OK |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10035 | A | Check if TCMS DDU and GSMR-HMI times are automatically synchronised - do not manually set the time                           |  | OK |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10036 | R | The time is the same (allowable difference of <10s)                                                                          |  | OK |                      | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |
| 10037 | I | PACIS-HMI Connection                                                                                                         |  | OK |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train |
| 10038 | A | Lift the GSMR handset                                                                                                        |  | OK |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train |
| 10039 | A | Press the PA button on the GSMR HMI                                                                                          |  | OK |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train |
| 10040 | R | On the GSMR module PAI card, the Red and Ack LEDs light green                                                                |  | OK |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train |
| 10041 | R | The PA indication alarm sounds in all cars                                                                                   |  | OK |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train |
| 10042 | A | Press the PTT on the handset and speak into the handset microphone                                                           |  | OK |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train |
| 10043 | R | Text displayed on the HMI: "Talk!"                                                                                           |  | OK |                      | TIVANI Angel<br>542257<br>20.11.2025             | Train |



| 10044                               | R     | Your voice can be heard clearly in all the cars                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | TIVANI Angel<br>542257<br>20.11.2025             | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
|-------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|--------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|--|------------------------------------------|-------|
| 10045                               | I     | UHF Radio Test TC2                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Tshembhani Khosa<br>446920<br>20.11.2025         | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 10046                               | A     | Enter each mission number below on the attached picture and press select on the UHF handheld                                                                                 | <table><tr><th colspan="4">UHF RADIO Train Number for Pretoria</th></tr><tr><td>00001</td><td>91001</td><td>44011</td><td>18011</td></tr><tr><td>00041</td><td>91041</td><td>44051</td><td>18041</td></tr><tr><td>00081</td><td>91081</td><td>44061</td><td>18051</td></tr><tr><td>00091</td><td>91091</td><td>44071</td><td>18061</td></tr><tr><td>00071</td><td>91071</td><td>44081</td><td>18081</td></tr></table> | UHF RADIO Train Number for Pretoria |  |                                                  |       | 00001 | 91001 | 44011 | 18011 | 00041 | 91041 | 44051 | 18041 | 00081 | 91081 | 44061 | 18051 | 00091 | 91091 | 44071 | 18061 | 00071 | 91071 | 44081 | 18081 | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| UHF RADIO Train Number for Pretoria |       |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 00001                               | 91001 | 44011                                                                                                                                                                        | 18011                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 00041                               | 91041 | 44051                                                                                                                                                                        | 18041                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 00081                               | 91081 | 44061                                                                                                                                                                        | 18051                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 00091                               | 91091 | 44071                                                                                                                                                                        | 18061                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 00071                               | 91071 | 44081                                                                                                                                                                        | 18081                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 10047                               | R     | The Radio displays the selected number eg "D 9104" and the network bars are visible                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Tshembhani Khosa<br>446920<br>20.11.2025         | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 10048                               | A     | To test the next number, press and hold the off button to switch off the handheld and switch on the handheld again, then enter the new number.                               |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Tshembhani Khosa<br>446920<br>20.11.2025         | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 10049                               | R     | All mission numbers on the above picture are tested ok                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Tshembhani Khosa<br>446920<br>20.11.2025         | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 10050                               | I     | DSD ALERT                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Tshembhani Khosa<br>446920<br>20.11.2025         | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 10051                               | A     | Ensure that Deadman is not overridden, and set the direction switch to Forward position                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 10052                               | R     | The deadman sound should be left audible, until the GSMR HMI reports DSD Alert! and the GSMR buzzer can be heard                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 10053                               | A     | Put the direction switch on neutral position and press the master controller to cancel the deadman sound. Press key number 10 on the GSMR HMI to cancel the DSD Alert sound. |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |
| 10054                               | I     | End of Test                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                       | OK                                  |  | Mbavhalelo<br>Funyufunyu<br>484649<br>19.11.2025 | Train |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |  |                                          |       |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 26 – Traction Converter

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### 26.1 Instructions list

### 26.1.1 Traction Converter

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                       | File                                                                                | Result status | Result value | Operator                             | Vehicle |
|-------|------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|--------------------------------------|---------|
| 10001 | I    | Traction and Electric braking SPP=033                                                             |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10002 | I    | Initial Conditions                                                                                |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10003 | I    | Train is prepared with High voltage                                                               |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10004 | I    | Master controller is in OFF position                                                              |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10005 | I    | All traction units are in black colour on the DDU maintenance screen                              |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10006 | I    | Start of Test                                                                                     |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10007 | A    | Put the driving selector switch in FORWARD position                                               |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10008 | R    | Check on the DDU that all traction units are in FWD position                                      |  | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10009 | A    | Put the driving selector switch in REVERSE position                                               |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10010 | R    | Check on the DDU that all traction units are in REV position                                      |  | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10011 | A    | Put the driving selector switch in NEUTRAL position                                               |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10012 | I    | Traction Fault and reset                                                                          |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10013 | A    | Open HSCB using button 22S12                                                                      |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10014 | A    | Open the circuit breaker 33Q3 in M4 car                                                           |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10015 | R    | Traction unit of M4 appear in fault on the DDU and an IOS is generated about loss of traction 25% |  | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |
| 10016 | A    | Close the circuit breaker 33Q3                                                                    |                                                                                     | OK            |              | TIVANI Angel<br>542257<br>17.11.2025 | Train   |

|       |   |                                                                                                   |                                                                                     |    |  |                                      |       |
|-------|---|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--|--------------------------------------|-------|
| 10017 | A | Press the DDU virtual button RESET TRACTION FAULTS                                                |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10018 | R | Traction unit for M4 is back in service, the IOS generated above has disappeared                  |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10019 | A | Open the circuit breaker 33Q3 in M1 car                                                           |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10020 | R | Traction unit of M1 appear in fault on the DDU and an IOS is generated about loss of traction 25% |    | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10021 | A | Close circuit breaker 33Q3 in M1 car                                                              |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10022 | A | Press the DDU virtual button RESET TRACTION FAULTS                                                |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10023 | R | Traction unit for M1 is back in service, the IOS generated above has disappeared                  |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10024 | A | Open the circuit breaker 33Q3 in M2 car                                                           |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10025 | R | Traction unit of M2 appear in fault on the DDU and an IOS is generated about loss of traction 25% |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10026 | A | Close the circuit breaker 33Q3 in M2 car                                                          |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10027 | A | Press the DDU virtual button RESET TRACTION FAULTS                                                |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10028 | R | Traction unit for M2 is back in service, the IOS generated above has disappeared                  |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10029 | A | Open the circuit breaker 33Q3 in M3 car                                                           |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10030 | R | Traction unit of M3 appear in fault on the DDU and an IOS is generated about loss of traction 25% |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10031 | A | Close the circuit breaker 33Q3 in M3 car                                                          |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10032 | A | Press the DDU virtual button RESET TRACTION FAULTS                                                |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10033 | R | Traction unit for M3 is back in service, the IOS generated above has disappeared                  |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
| 10034 | A | Close HSCBs using button 22S11                                                                    |                                                                                     | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |



|       |   |             |  |    |  |                                      |       |
|-------|---|-------------|--|----|--|--------------------------------------|-------|
| 10035 | I | End of Test |  | OK |  | TIVANI Angel<br>542257<br>17.11.2025 | Train |
|-------|---|-------------|--|----|--|--------------------------------------|-------|



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
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## Section 27 – CCTV Video Information

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### 27.1 Instructions list

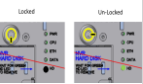


### 27.1.1 Video Information

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                       | File                                                                                | Result status | Result value | Operator                                 | Vehicle |
|-------|------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|------------------------------------------|---------|
| 10001 | I    | CCTV SPP=066                                                      |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10002 | I    | Front camera footage TC1                                          |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10003 | A    | Active Cab on TC1 and Login as Driver:<br>70787878                |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10004 | A    | Press and hold the FRONT EVENT<br>BUTTON 66S1 on TC1              |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10005 | R    | Read Defined Variable [TT]<br>(MPU1)Li_CTV_Tc1CctvEventPbR1 = 1.0 |                                                                                     | OK            | 1            | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10006 | R    | Read Defined Variable [TT]<br>(MPU1)Li_CTV_Tc1CctvEventPbR2 = 1.0 |                                                                                     | OK            | 1            | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10007 | R    | The FRONT EVENT button lamp 66S1 is<br>ON                         |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10008 | A    | Release the button 66S1                                           |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10009 | R    | Read Defined Variable [TT]<br>(MPU1)Li_CTV_Tc1CctvEventPbR1 = 0.0 |                                                                                     | OK            | 0            | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10010 | R    | Read Defined Variable [TT]<br>(MPU1)Li_CTV_Tc1CctvEventPbR2 = 0.0 |                                                                                     | OK            | 0            | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10011 | R    | The FRONT EVENT button lamp 66S1 is<br>OFF                        |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10012 | A    | On the DDU screen, check if the Camera is<br>correctly adjusted   |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10013 | A    | The picture on the DDU should be as the<br>picture attached.      |  | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10014 | I    | Reverse direction front camera functional<br>test TC1             |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10015 | A    | Put the direction selector switch in<br>REVERSE position          |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |
| 10016 | R    | CCTV footage of TC2 front camera appears<br>on the DDU            |                                                                                     | OK            |              | Mphato Mphahlele<br>480716<br>19.11.2025 | Train   |

|       |   |                                                                   |                                                                                     |    |   |                                          |       |
|-------|---|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|---|------------------------------------------|-------|
| 10017 | A | Put the direction selector switch in NEUTRAL position             |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10018 | R | CCTV footage of TC2 front camera does not appear on the DDU       |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10019 | A | Remove active cab on TC1                                          |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10020 | I | Front camera footage TC2                                          |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10021 | A | Active cab on TC2 and Login as Driver: 70787878                   |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10022 | A | Press and hold the FRONT EVENT BUTTON 66S1 on TC2                 |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(MPU1)Li_CTV_Tc2CctvEventPbR1 = 1.0 |                                                                                     | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(MPU1)Li_CTV_Tc2CctvEventPbR2 = 1.0 |                                                                                     | OK | 1 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10025 | R | The FRONT EVENT button lamp 66S1 is ON                            |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10026 | A | Release the button 66S1                                           |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10027 | R | Read Defined Variable [TT]<br>(MPU1)Li_CTV_Tc1CctvEventPbR1 = 0.0 |                                                                                     | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10028 | R | Read Defined Variable [TT]<br>(MPU1)Li_CTV_Tc1CctvEventPbR2 = 0.0 |                                                                                     | OK | 0 | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10029 | R | The FRONT EVENT button lamp 66S1 is OFF                           |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10030 | A | On the DDU screen, check if the Camera is correctly adjusted      |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10031 | A | The picture on the DDU should be as the picture attached.         |  | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10032 | I | Reverse direction front camera functional test TC2                |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10033 | A | Put the direction selector switch in REVERSE position             |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10034 | R | CCTV footage of TC1 front camera appears on the DDU               |                                                                                     | OK |   | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |

|       |   |                                                                                                                                                                                                                                                  |                                                                                   |    |  |                                          |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|--|------------------------------------------|-------|
| 10035 | A | Put the direction selector switch in NEUTRAL position                                                                                                                                                                                            |                                                                                   | OK |  | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10036 | R | CCTV footage of TC1 front camera does not appear on the DDU                                                                                                                                                                                      |                                                                                   | OK |  | Mphato Mphahlele<br>480716<br>19.11.2025 | Train |
| 10037 | I | NVR Recording                                                                                                                                                                                                                                    |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10038 | A | Ensure that the NVR in both TC1 and TC2 is locked according to the image below (the black box representing the direction of the key). A locked NVR has an OFF HD LED - After locking the NVR it will take some time for the HD LED to switch OFF |  | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10039 | R | The TC1 NVR is locked, and the HD LED is OFF                                                                                                                                                                                                     |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10040 | R | The TC2 NVR is locked, and the HD LED is OFF                                                                                                                                                                                                     |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10041 | A | Using the procedure attached, confirm that both NVRs are recording video data                                                                                                                                                                    |  | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10042 | A | Take a screenshot of the CCTV console live stream to indicate the recorder is working for NVR1                                                                                                                                                   |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10043 | R | save the screenshot as TSXX_NVR1                                                                                                                                                                                                                 |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10044 | A | Take a screenshot of the CCTV console live stream to indicate the recorder is working for NVR2                                                                                                                                                   |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10045 | R | Save the screenshot as TSXX_NVR2                                                                                                                                                                                                                 |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10046 | A | Take the two saved screenshot and put them in a folder named "TSXXX_NVR." Then save the folder to "teams" channel (shift reports) under a specific trainset folder TSXX>Results files> Train level                                               |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |
| 10047 | I | End of Test                                                                                                                                                                                                                                      |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025 | Train |



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
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## Section 28 – PACIS

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### 28.1 Instructions list

### 28.1.1 Passenger Information System

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                                                                                             | File                                                                                | Result status | Result value | Operator                                  | Vehicle |
|-------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------|-------------------------------------------|---------|
| 10001 | I    | Pacis system = SPP 054 PIS                                                                                                                                                              |                                                                                     | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10002 | I    | Software Upload                                                                                                                                                                         |                                                                                     | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10003 | A    |                                                                                                                                                                                         |    | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10004 | A    |                                                                                                                                                                                         |    | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10005 | I    | Pacis upload                                                                                                                                                                            |    | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10006 | R    | Verify on the DDU, referring to the baseline spreadsheet, that all Pacis devices are updated with the latest software versions                                                          |                                                                                     | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10007 | I    | Camera Orientation                                                                                                                                                                      |                                                                                     | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10008 | I    | The camera should show at least the complete gangway between two cars, luggage racks, the Interior display as well as the dead zones on the left and right of the doors.                |                                                                                     | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10009 | A    | Adjust the saloon cameras according to the image shown below. The Interior display should appear fully on the image as well as up to at least the first 2 doors of the neighbouring car |  | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10010 | A    | Please note any cameras showing green strips or unclear images should be updated settings using the attached procedure                                                                  |  | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10011 | R    | The Saloon cameras on TC1 have been adjusted according to image above.                                                                                                                  |                                                                                     | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10012 | R    | The Saloon cameras on M4 have been adjusted according to image above.                                                                                                                   |                                                                                     | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10013 | R    | The Saloon cameras on M1 have been adjusted according to image above.                                                                                                                   |                                                                                     | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |
| 10014 | R    | The Saloon cameras on M2 have been adjusted according to image above.                                                                                                                   |                                                                                     | OK            |              | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train   |

|       |   |                                                                                         |  |    |   |                                           |       |
|-------|---|-----------------------------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10015 | R | The Saloon cameras on M3 have been adjusted according to image above.                   |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10016 | R | The Saloon cameras on TC2 have been adjusted according to image above.                  |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10017 | I | Mission Number Display                                                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10018 | A | Active Cab in TC1                                                                       |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10019 | A | Login as a driver, ID: 70787878                                                         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10020 | A | Enter the mission 8100                                                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10021 | R | Check that the TC1 and TC2 front external displays are showing the mission number 8100. |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10022 | I | Public Announcements TC1                                                                |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10023 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPaPbR1 = 0.0                           |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10024 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPaPbR2 = 0.0                           |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10025 | A | Pulse the switch 54S1 to the right to activate PA announcement                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10026 | R | Green lamp 54H2 is ON                                                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10027 | R | A beep sound can be heard in all saloon speakers                                        |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10028 | R | On Driver's screen (Home Page), PA activation message is displayed                      |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10029 | A | Press the button 54S4 and hold it while talking via the microphone                      |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10030 | I | It is necessary to go to each and every speaker to verify sound is coming out           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10031 | R | Announcement can be heard in saloon speakers of TC1                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10032 | R | Announcement can be heard in saloon speakers of M4                                      |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                                                                                                                |                                                                                     |    |   |                                           |       |
|-------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|---|-------------------------------------------|-------|
| 10033 | R | Announcement can be heard in saloon speakers of M1                                                                                                             |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10034 | R | Announcement can be heard in saloon speakers of M2                                                                                                             |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10035 | R | Announcement can be heard in saloon speakers of M3                                                                                                             |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10036 | R | Announcement can be heard in saloon speakers of TC2                                                                                                            |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10037 | A | Release the button 54S4                                                                                                                                        |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10038 | A | Talk on the microphone                                                                                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10039 | R | No sound can be heard in all cars                                                                                                                              |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10040 | A | Pulse the switch 54S1 to the right to de-activate PA announcement                                                                                              |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10041 | R | Green lamp 54H2 is OFF                                                                                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10042 | A | On the driver's screen (Image attached) select the "Public Address" virtual button. (NOTE variables below should be read immediately -they last for 2 seconds) |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10043 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPaPbR1 = 1.0                                                                                                  |                                                                                     | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10044 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPaPbR2 = 1.0                                                                                                  |                                                                                     | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10045 | R | Green lamp 54H2 is ON                                                                                                                                          |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10046 | R | PA announcement is activated                                                                                                                                   |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10047 | A | On the driver's screen (Home Page) select the "Public Address" virtual button to end communication                                                             |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10048 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPaPbR1 = 0.0                                                                                                  |                                                                                     | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10049 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPaPbR2 = 0.0                                                                                                  |                                                                                     | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10050 | R | Green lamp 54H2 is OFF                                                                                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |



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| 10051 | I | PA announcement is de-activated                                                         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10052 | A | Press the button 54S4 and hold it while talking on the microphone                       |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10053 | R | Sound cannot be heard in all speakers                                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10054 | A | Release the button 54S4                                                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10055 | A | Remove active cab on TC1                                                                |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10056 | A | Pulse the switch 54S1 to the right to activate PA announcement                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10057 | R | Green lamp 54H2 is OFF                                                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10058 | R | No PA announcement activation showing on the Driver's screen                            |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10059 | I | Cab to Cab Communication TC1                                                            |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10060 | I | It is not necessary to have an active cab in order to initiate cab to cab communication |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10061 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduCabToCabPbR2 = 0.0                     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10062 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduCabToCabPbR2 = 0.0                     |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10063 | A | Pulse the switch 54S1 to the left to activate cab to cab communication                  |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10064 | R | Green lamp 54H1 is blinking                                                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10065 | R | A beep can be heard in TC2 cab                                                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10066 | R | Green lamp 54H1 is blinking in TC2 cab                                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10067 | R | Cab to Cab communication is Active on DDU driver's screen                               |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10068 | A | Accept Cab to cab communication request in TC2 by pulsing switch 54S1 to the left       |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

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| 10069 | R | Green lamp 54H1 is ON (steady) on TC2                                                                                                                          |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10070 | A | Press and hold button 54S4 to initiate communication in TC1 and talk on the microphone                                                                         |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10071 | R | Sound can be heard on TC2 cab speakers                                                                                                                         |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10072 | A | Press and hold button 54S4 in TC2 and talk on the microphone                                                                                                   |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10073 | R | Sound can be heard on TC1 cab speakers                                                                                                                         |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10074 | A | Pulse the switch 54S1 to the left on TC1 to de-activate cab to cab communication                                                                               |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10075 | R | Green lamp 54H1 is OFF on both TC1 and TC2                                                                                                                     |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10076 | A | On the driver's screen (image attached) select the "Public Address" virtual button. (NOTE variables below should be read immediately -they last for 2 seconds) |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10077 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduCabToCabPbR1 = 1.0                                                                                            |                                                                                   | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10078 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduCabToCabPbR2 = 1.0                                                                                            |                                                                                   | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10079 | R | Cab-Cab is activated                                                                                                                                           |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10080 | A | On the driver's screen select the "Public Address" virtual button to end communication                                                                         |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10081 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduCabToCabPbR2 = 0.0                                                                                            |                                                                                   | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10082 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduCabToCabPbR2 = 0.0                                                                                            |                                                                                   | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10083 | R | Cab-Cab is de-activated                                                                                                                                        |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10084 | I | Cab to Cab Communication TC2                                                                                                                                   |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10085 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduCabToCabPbR1 = 0.0                                                                                            |                                                                                   | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10086 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduCabToCabPbR2 = 0.0                                                                                            |                                                                                   | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

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| 10087 | A | Pulse the switch 54S1 to the left to activate cab to cab communication                                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10088 | R | Green lamp 54H1 is blinking                                                                                                                                    |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10089 | R | A beep can be heard in TC1 cab                                                                                                                                 |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10090 | R | Green lamp 54H1 is blinking in TC1 cab                                                                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10091 | R | Cab to Cab communication is Active on DDU driver's screen                                                                                                      |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10092 | A | Accept Cab to cab communication request in TC1 by pulsing switch 54S1 to the left                                                                              |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10093 | R | Green lamp 54H1 is ON (steady) on TC1                                                                                                                          |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10094 | A | Press and hold button 54S4 to initiate communication in TC2 and talk on the microphone                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10095 | R | Sound can be heard on TC1 cab speakers                                                                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10096 | A | Press and hold button 54S4 in TC1 and talk on the microphone                                                                                                   |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10097 | R | Sound can be heard on TC2 cab speakers                                                                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10098 | A | Pulse the switch 54S1 to the left on TC2 to de-activate cab to cab communication                                                                               |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10099 | R | Green lamp 54H1 is OFF on both TC1 and TC2                                                                                                                     |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10100 | A | On the driver's screen (image attached) select the "Public Address" virtual button. (NOTE variables below should be read immediately -they last for 2 seconds) |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10101 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduCabToCabPbR1 = 1.0                                                                                            |                                                                                     | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10102 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduCabToCabPbR2 = 1.0                                                                                            |                                                                                     | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10103 | R | Cab-Cab is activated                                                                                                                                           |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10104 | A | On the driver's screen select the "Public Address" virtual button to end communication                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

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| 10105 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduCabToCabPbR1 = 0.0          |                                                                                     | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10106 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduCabToCabPbR2 = 0.0          |                                                                                     | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10107 | R | Cab-Cab is de-activated                                                      |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10108 | I | Ventilation Rack TC1                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10109 | A | Follow the instruction below o how to test the ventilation rack              |    | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10110 | R | All three fans of the ventilation rack are working                           |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10111 | I | PEA Functional Test                                                          |    | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10112 | I | All PEAs are normalized on Train                                             |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10113 | I | All doors should be closed                                                   |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10114 | I | Lamp 44H1 is OFF                                                             |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10115 | I | PEI auto test passed in all cars, only one green led can be seen in all PEIs |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10116 | A | Active cab on TC1 and login as driver: 70787878                              |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10117 | I | All Cameras should be working and properly adjusted                          |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10118 | I | Passenger Emergency Alarm 1 (PEA 44S11) on TC1                               |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10119 | A | Pull the PEA                                                                 |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10120 | R | Lamp 44H1 is ON                                                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10121 | R | Read Defined Variable [TT]<br>(MPU1)li_ubk_tc1pealooop = 1.0                 |                                                                                     | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10122 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                                   |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

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| 10123 | R | A Beed can be heard in TC1 cab                                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10124 | R | Button lamp 54S3 is BLINKING                                                      |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10125 | R | An emergency alarm announcement can be heard in all saloon speakers               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10126 | R | Displays INT1 and INT2 indicate "Passenger Alarm" in all saloon cars              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10127 | R | Lateral displays LAT1 and LAT2 indicate "Passenger Alarm" on the affected car     |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10128 | R | A CCTV footage of TC1 camera 1 and 2 can be seen on the Driver's screen           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10129 | A | Press the button 54S3 to acknowledge PEA communication request                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10130 | A | Press and hold button 54S4 on TC1 and talk on the microphone                      |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10131 | R | Message stops broadcasting in all saloon speakers                                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10132 | R | The person in the cabin can be heard from the PEI speaker                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10133 | A | Respond by talking back via the PEI                                               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10134 | R | Communication is established between PEI and Driver cab                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10135 | A | Press the button 54S3 to end PEA communication                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10136 | A | Reset PEA using switch 44S6                                                       |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10137 | R | PEA is reset and a click sound can be heard while PEA returns to its normal state |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10138 | A | Open and close doors using buttons on driver desk                                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10139 | R | All doors are closed and in blue colour on DDU                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10140 | R | Lamp 44H1 is OFF                                                                  |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

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| 10141 | R | Read Defined Variable [TT]<br>(MPU1)li_ubk_tc1pealoo = 0.0                                                                                                               |                                                                                     | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10142 | R | No CCTV footage showing on Driver's screen                                                                                                                               |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10143 | R | Button lamp 54S3 is OFF                                                                                                                                                  |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10144 | R | No message on Pacis displays                                                                                                                                             |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10145 | I | Passenger Emergency Alarm 2 (PEA<br>44S12) on TC1                                                                                                                        |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10146 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPeiCommPbR1 =<br>0.0                                                                                                    |                                                                                     | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10147 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPeiCommPbR2 =<br>0.0                                                                                                    |                                                                                     | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10148 | A | Pull the PEA                                                                                                                                                             |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10149 | R | "Wait/Talk" lamp is BLINKING ORANGE<br>on PEI                                                                                                                            |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10150 | R | A CCTV footage of TC1 camera 1 and 2<br>can be seen on the Driver's screen                                                                                               |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10151 | A | On the driver's screen (image attached)<br>select the "Passenger Alarm" virtual<br>button. (NOTE variables below should be<br>read immediately -they last for 2 seconds) |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10152 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPeiCommPbR1 =<br>1.0                                                                                                    |                                                                                     | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10153 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPeiCommPbR2 =<br>1.0                                                                                                    |                                                                                     | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10154 | A | Press and hold button 54S4 on TC1 and<br>talk on the microphone                                                                                                          |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10155 | R | The person in the cabin can be heard from<br>the PEI speaker                                                                                                             |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10156 | A | Respond by talking back via the PEI                                                                                                                                      |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10157 | R | Communication is stabile between PEI<br>and Driver cab                                                                                                                   |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10158 | A | On the driver's screen select the<br>"Passenger Alarm" virtual button to end<br>communication                                                                            |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

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| 10159 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPeiCommPbR1 =<br>0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10160 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc1DduPeiCommPbR2 =<br>0.0      |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10161 | I | Passenger Emergency Alarm 3 (PEA<br>44S13) on TC1                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10162 | A | Pull the PEA                                                               |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10163 | R | "Wait/Talk" lamp is BLINKING ORANGE<br>on PEI                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10164 | R | A CCTV footage of TC1 camera 1 and 2<br>can be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10165 | A | Press the button 54S3 to acknowledge<br>PEA communication request          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10166 | A | Press and hold button 54S4 on TC1 and<br>talk on the microphone            |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10167 | R | The person in the cabin can be heard from<br>the PEI speaker               |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10168 | A | Respond by talking back via the PEI                                        |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10169 | R | Communication is established between<br>PEI and Driver cab                 |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10170 | A | Press the button 54S3 to end PEA<br>communication                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10171 | I | Passenger Emergency Alarm 4 (PEA<br>44S14) on TC1                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10172 | A | Pull the PEA                                                               |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10173 | R | "Wait/Talk" lamp is BLINKING ORANGE<br>on PEI                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10174 | R | A CCTV footage of TC1 camera 1 and 2<br>can be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10175 | A | Press the button 54S3 to acknowledge<br>PEA communication request          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10176 | A | Press and hold button 54S4 on TC1 and<br>talk on the microphone            |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                         |  |    |  |                                           |       |
|-------|---|-------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10177 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10178 | A | Respond by talking back via the PEI                                     |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10179 | R | Communication is established between PEI and Driver cab                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10180 | A | Press the button 54S3 to end PEA communication                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10181 | I | Passenger Emergency Alarm 5 (PEA 44S15) on TC1                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10182 | A | Pull the PEA                                                            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10183 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10184 | R | A CCTV footage of TC1 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10185 | A | Press the button 54S3 to acknowledge PEA communication request          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10186 | A | Press and hold button 54S4 on TC1 and talk on the microphone            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10187 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10188 | A | Respond by talking back via the PEI                                     |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10189 | R | Communication is established between PEI and Driver cab                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10190 | A | Press the button 54S3 to end PEA communication                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10191 | I | Passenger Emergency Alarm 6 (PEA 44S16) on TC1                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10192 | A | Pull the PEA                                                            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10193 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10194 | R | A CCTV footage of TC1 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |



|       |   |                                                                         |  |    |  |                                           |       |
|-------|---|-------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10195 | A | Press the button 54S3 to acknowledge PEA communication request          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10196 | A | Press and hold button 54S4 on TC1 and talk on the microphone            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10197 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10198 | A | Respond by talking back via the PEI                                     |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10199 | R | Communication is established between PEI and Driver cab                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10200 | A | Press the button 54S3 to end PEA communication                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10201 | I | Call for Aid (CFA 54S5) on TC1                                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10202 | A | Press the SOS button 54S5                                               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10203 | R | Button lamp 54S5 is ON                                                  |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10204 | R | No sound can be heard in all saloon speakers                            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10205 | R | Displays INT1 and INT2 indicate "Call for AID" in all saloon cars       |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10206 | R | Lateral displays LAT1 and LAT2 indicate "Call for AID" on TC1           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10207 | R | A CCTV footage of TC1 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10208 | A | Press the button 54S3 to acknowledge SOS communication request          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10209 | A | Press and hold button 54S4 on TC1 and talk on the microphone            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10210 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10211 | A | Respond by talking back via the PEI near 54S5                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10212 | R | Communication is established between PEI and Driver cab                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10213 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10214 | I | Passenger Emergency Alarm 1 (PEA 44S11) on M4                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10215 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10216 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10217 | R | A CCTV footage of M4 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10218 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10219 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10220 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10221 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10222 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10223 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10224 | I | Passenger Emergency Alarm 2 (PEA 44S12) on M4                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10225 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10226 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10227 | R | A CCTV footage of M4 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10228 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10229 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10230 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10231 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10232 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10233 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10234 | I | Passenger Emergency Alarm 3 (PEA 44S13) on M4                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10235 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10236 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10237 | R | A CCTV footage of M4 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10238 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10239 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10240 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10241 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10242 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10243 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10244 | I | Passenger Emergency Alarm 4 (PEA 44S14) on M4                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10245 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10246 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10247 | R | A CCTV footage of M4 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10248 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10249 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10250 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10251 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10252 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10253 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10254 | I | Passenger Emergency Alarm 5 (PEA 44S15) on M4                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10255 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10256 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10257 | R | A CCTV footage of M4 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10258 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10259 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10260 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10261 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10262 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10263 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10264 | I | Passenger Emergency Alarm 6 (PEA 44S16) on M4                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10265 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10266 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10267 | R | A CCTV footage of M4 camera 1 and 2 can be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10268 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10269 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10270 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10271 | A | Respond by talking back via the PEI                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10272 | R | Communication is established between PEI and Driver cab                |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10273 | A | Press the button 54S3 to end PEA communication                         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10274 | R | Read Defined Variable [TT]<br>(MPU1)Li_UBK_M4StateResetPea = 1.0       |  | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10275 | A | Reset PEA using switch 44S6                                            |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10276 | R | Read Defined Variable [TT]<br>(MPU1)Li_UBK_M4StateResetPea = 0.0       |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10277 | R | All M4 PEAs are reset                                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10278 | I | Passenger Emergency Alarm 1 (PEA 44S11) on M1                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10279 | A | Pull the PEA                                                           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10280 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10281 | R | A CCTV footage of M1 camera 1 and 2 can be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10282 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10283 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10284 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10285 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10286 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10287 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10288 | I | Passenger Emergency Alarm 2 (PEA 44S12) on M1                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10289 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10290 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10291 | R | A CCTV footage of M1 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10292 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10293 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10294 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10295 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10296 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10297 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10298 | I | Passenger Emergency Alarm 3 (PEA 44S13) on M1                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10299 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10300 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10301 | R | A CCTV footage of M1 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10302 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10303 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10304 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10305 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10306 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10307 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10308 | I | Passenger Emergency Alarm 4 (PEA 44S14) on M1                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10309 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10310 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10311 | R | A CCTV footage of M1 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10312 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10313 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10314 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10315 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10316 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10317 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10318 | I | Passenger Emergency Alarm 5 (PEA 44S15) on M1                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10319 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10320 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10321 | R | A CCTV footage of M1 camera 1 and 2 can be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10322 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10323 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10324 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10325 | A | Respond by talking back via the PEI                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10326 | R | Communication is established between PEI and Driver cab                |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10327 | A | Press the button 54S3 to end PEA communication                         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10328 | I | Passenger Emergency Alarm 6 (PEA 44S16) on M1                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10329 | A | Pull the PEA                                                           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10330 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10331 | R | A CCTV footage of M1 camera 1 and 2 can be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10332 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10333 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10334 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10335 | A | Respond by talking back via the PEI                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10336 | R | Communication is established between PEI and Driver cab                |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10337 | A | Press the button 54S3 to end PEA communication                         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10338 | R | Read Defined Variable [TT]<br>(MPU1)Li_UBK_M1StateResetPea = 1.0       |  | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |



|       |   |                                                                           |  |    |   |                                           |       |
|-------|---|---------------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10339 | A | Reset PEA using switch 44S6                                               |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10340 | R | Read Defined Variable [TT]<br>(MPU1)Li_UBK_M1StateResetPea = 0.0          |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10341 | R | All M1 PEAs are reset                                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10342 | I | Passenger Emergency Alarm 1 (PEA<br>44S11) on M2                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10343 | A | Pull the PEA                                                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10344 | R | "Wait/Talk" lamp is BLINKING ORANGE<br>on PEI                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10345 | R | A CCTV footage of M2 camera 1 and 2 can<br>be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10346 | A | Press the button 54S3 to acknowledge<br>PEA communication request         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10347 | A | Press and hold button 54S4 on TC1 and<br>talk on the microphone           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10348 | R | The person in the cabin can be heard from<br>the PEI speaker              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10349 | A | Respond by talking back via the PEI                                       |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10350 | R | Communication is established between<br>PEI and Driver cab                |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10351 | A | Press the button 54S3 to end PEA<br>communication                         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10352 | I | Passenger Emergency Alarm 2 (PEA<br>44S12) on M2                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10353 | A | Pull the PEA                                                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10354 | R | "Wait/Talk" lamp is BLINKING ORANGE<br>on PEI                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10355 | R | A CCTV footage of M2 camera 1 and 2 can<br>be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10356 | A | Press the button 54S3 to acknowledge<br>PEA communication request         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10357 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10358 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10359 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10360 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10361 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10362 | I | Passenger Emergency Alarm 3 (PEA 44S13) on M2                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10363 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10364 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10365 | R | A CCTV footage of M2 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10366 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10367 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10368 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10369 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10370 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10371 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10372 | I | Passenger Emergency Alarm 4 (PEA 44S14) on M2                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10373 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10374 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10375 | R | A CCTV footage of M2 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10376 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10377 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10378 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10379 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10380 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10381 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10382 | I | Passenger Emergency Alarm 5 (PEA 44S15) on M2                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10383 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10384 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10385 | R | A CCTV footage of M2 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10386 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10387 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10388 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10389 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10390 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10391 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10392 | I | Passenger Emergency Alarm 6 (PEA 44S16) on M2                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |   |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10393 | A | Pull the PEA                                                           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10394 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10395 | R | A CCTV footage of M2 camera 1 and 2 can be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10396 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10397 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10398 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10399 | A | Respond by talking back via the PEI                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10400 | R | Communication is established between PEI and Driver cab                |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10401 | A | Press the button 54S3 to end PEA communication                         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10402 | R | Read Defined Variable [TT]<br>(MPU1)Li_UBK_M2StateResetPea = 1.0       |  | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10403 | A | Reset PEA using switch 44S6                                            |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10404 | R | Read Defined Variable [TT]<br>(MPU1)Li_UBK_M2StateResetPea = 0.0       |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10405 | R | All M2 PEAs are reset                                                  |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10406 | I | Passenger Emergency Alarm 1 (PEA 44S11) on M3                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10407 | A | Pull the PEA                                                           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10408 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10409 | R | A CCTV footage of M3 camera 1 and 2 can be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10410 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10411 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10412 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10413 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10414 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10415 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10416 | I | Passenger Emergency Alarm 2 (PEA 44S12) on M3                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10417 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10418 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10419 | R | A CCTV footage of M3 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10420 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10421 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10422 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10423 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10424 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10425 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10426 | I | Passenger Emergency Alarm 3 (PEA 44S13) on M3                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10427 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10428 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10429 | R | A CCTV footage of M3 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10430 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10431 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10432 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10433 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10434 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10435 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10436 | I | Passenger Emergency Alarm 4 (PEA 44S14) on M3                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10437 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10438 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10439 | R | A CCTV footage of M3 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10440 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10441 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10442 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10443 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10444 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10445 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10446 | I | Passenger Emergency Alarm 5 (PEA 44S15) on M3                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                        |  |    |  |                                           |       |
|-------|---|------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10447 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10448 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10449 | R | A CCTV footage of M3 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10450 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10451 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10452 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10453 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10454 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10455 | A | Press the button 54S3 to end PEA communication                         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10456 | I | Passenger Emergency Alarm 6 (PEA 44S16) on M3                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10457 | A | Pull the PEA                                                           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10458 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                             |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10459 | R | A CCTV footage of M3 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10460 | A | Press the button 54S3 to acknowledge PEA communication request         |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10461 | A | Press and hold button 54S4 on TC1 and talk on the microphone           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10462 | R | The person in the cabin can be heard from the PEI speaker              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10463 | A | Respond by talking back via the PEI                                    |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10464 | R | Communication is established between PEI and Driver cab                |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                         |  |    |   |                                           |       |
|-------|---|-------------------------------------------------------------------------|--|----|---|-------------------------------------------|-------|
| 10465 | A | Press the button 54S3 to end PEA communication                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10466 | R | Read Defined Variable [TT]<br>(MPU1)Li_UBK_M3StateResetPea = 1.0        |  | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10467 | A | Reset PEA using switch 44S6                                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10468 | R | Read Defined Variable [TT]<br>(MPU1)Li_UBK_M3StateResetPea = 0.0        |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10469 | R | All M3 PEAs are reset                                                   |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10470 | I | Passenger Emergency Alarm 1 (PEA 44S11) on TC2                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10471 | A | Pull the PEA                                                            |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10472 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10473 | R | A CCTV footage of TC2 camera 1 and 2 can be seen on the Driver's screen |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10474 | A | Press the button 54S3 to acknowledge PEA communication request          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10475 | A | Press and hold button 54S4 on TC1 and talk on the microphone            |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10476 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10477 | A | Respond by talking back via the PEI                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10478 | R | Communication is established between PEI and Driver cab                 |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10479 | A | Press the button 54S3 to end PEA communication                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10480 | I | Passenger Emergency Alarm 2 (PEA 44S12) on TC2                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10481 | A | Pull the PEA                                                            |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10482 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

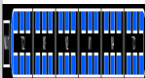


|       |   |                                                                         |  |    |  |                                           |       |
|-------|---|-------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10483 | R | A CCTV footage of TC2 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10484 | A | Press the button 54S3 to acknowledge PEA communication request          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10485 | A | Press and hold button 54S4 on TC1 and talk on the microphone            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10486 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10487 | A | Respond by talking back via the PEI                                     |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10488 | R | Communication is established between PEI and Driver cab                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10489 | A | Press the button 54S3 to end PEA communication                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10490 | I | Passenger Emergency Alarm 3 (PEA 44S13) on TC2                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10491 | A | Pull the PEA                                                            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10492 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10493 | R | A CCTV footage of TC2 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10494 | A | Press the button 54S3 to acknowledge PEA communication request          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10495 | A | Press and hold button 54S4 on TC1 and talk on the microphone            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10496 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10497 | A | Respond by talking back via the PEI                                     |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10498 | R | Communication is established between PEI and Driver cab                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10499 | A | Press the button 54S3 to end PEA communication                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10500 | I | Passenger Emergency Alarm 4 (PEA 44S14) on TC2                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                         |  |    |  |                                           |       |
|-------|---|-------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10501 | A | Pull the PEA                                                            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10502 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10503 | R | A CCTV footage of TC2 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10504 | A | Press the button 54S3 to acknowledge PEA communication request          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10505 | A | Press and hold button 54S4 on TC1 and talk on the microphone            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10506 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10507 | A | Respond by talking back via the PEI                                     |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10508 | R | Communication is established between PEI and Driver cab                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10509 | A | Press the button 54S3 to end PEA communication                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10510 | I | Passenger Emergency Alarm 5 (PEA 44S15) on TC2                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10511 | A | Pull the PEA                                                            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10512 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10513 | R | A CCTV footage of TC2 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10514 | A | Press the button 54S3 to acknowledge PEA communication request          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10515 | A | Press and hold button 54S4 on TC1 and talk on the microphone            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10516 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10517 | A | Respond by talking back via the PEI                                     |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10518 | R | Communication is established between PEI and Driver cab                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                         |  |    |  |                                           |       |
|-------|---|-------------------------------------------------------------------------|--|----|--|-------------------------------------------|-------|
| 10519 | A | Press the button 54S3 to end PEA communication                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10520 | I | Passenger Emergency Alarm 6 (PEA 44S16) on TC2                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10521 | A | Pull the PEA                                                            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10522 | R | "Wait/Talk" lamp is BLINKING ORANGE on PEI                              |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10523 | R | A CCTV footage of TC2 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10524 | A | Press the button 54S3 to acknowledge PEA communication request          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10525 | A | Press and hold button 54S4 on TC1 and talk on the microphone            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10526 | R | The person in the cabin can be heard from the PEI speaker               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10527 | A | Respond by talking back via the PEI                                     |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10528 | R | Communication is established between PEI and Driver cab                 |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10529 | A | Press the button 54S3 to end PEA communication                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10530 | I | Call for Aid (CFA 54S5) on TC2                                          |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10531 | A | Press the SOS button 54S5                                               |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10532 | R | Button lamp 54S5 is ON                                                  |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10533 | R | No sound can be heard in all saloon speakers                            |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10534 | R | Displays INT1 and INT2 indicate "Call for AID" in all saloon cars       |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10535 | R | Lateral displays LAT1 and LAT2 indicate "Call for AID" on TC2           |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10536 | R | A CCTV footage of TC2 camera 1 and 2 can be seen on the Driver's screen |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                             |                                                                                     |    |   |                                           |       |
|-------|---|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|---|-------------------------------------------|-------|
| 10537 | A | Press the button 54S3 to acknowledge SOS communication request              |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10538 | A | Press and hold button 54S4 on TC1 and talk on the microphone                |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10539 | R | The person in the cabin can be heard from the PEI speaker                   |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10540 | A | Respond by talking back via the PEI near 54S5                               |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10541 | R | Communication is established between PEI and Driver cab                     |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10542 | A | Press the button 54S3 to end PEA communication                              |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10543 | A | Open and close doors left and right doors                                   |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10544 | R | All doors are closed and in blue colour on DDU                              |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10545 | I | PEAs functional Test from TC2 cab                                           |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10546 | I | This is a quick test to verify that all PEAs work and can be reset from TC2 |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10547 | A | Insert Driver's Key and turn to ON position                                 |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10548 | A | Login as Driver using the code 70787878                                     |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10549 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2alldoorsclosedr1 = 0.0        |                                                                                     | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10550 | R |                                                                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10551 | A | Pull all the PEAs on Train                                                  |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10552 | R |                                                                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10553 | R | Read Defined Variable [TT]<br>(MPU1)li_dor_tc2alldoorsclosedr1 = 1.0        |                                                                                     | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10554 | R |                                                                             |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

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| 10555 | A | Press the button 54S3 to acknowledge PEA communication request, continue to press the button until all but one PEAs have been acknowledged. |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10556 | R | Lamp 44H1 is ON                                                                                                                             |    | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10557 | R | Read Defined Variable [TT] (MPU1)li_ubk_tc2pealoo = 1.0                                                                                     |                                                                                     | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10558 | A | Press and hold the button 54S4 while talking on the microphone                                                                              |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10559 | R | The person in the cabin can be heard from the PEI speaker                                                                                   |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10560 | I | It is not necessary to perform step below for all PEAs, one PEA is sufficient                                                               |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10561 | A | Respond by talking back via the PEI                                                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10562 | R | Communication is established between PEI and Driver cab                                                                                     |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10563 | A | Reset all PEAs at using switch 44S6                                                                                                         |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10564 | R | All PEAs are reset, and a click sound can be heard while PEA returns to its normal state                                                    |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10565 | A | Open and close doors left and right doors                                                                                                   |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10566 | R | All doors are closed and in blue colour on DDU                                                                                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10567 | R | Lamp 44H1 is OFF                                                                                                                            |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10568 | R | No message on Pacis displays                                                                                                                |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10569 | R | Read Defined Variable [TT] (MPU1)li_ubk_tc2pealoo = 0.0                                                                                     |                                                                                     | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10570 | R | No CCTV footage showing on Driver's screen                                                                                                  |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10571 | A | On the Event screen, check that there are no IOS related to doors or PEAs recorded                                                          |                                                                                     | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10572 | R | After test is completed, the DDU PEA screen should be as shown                                                                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                       |  |    |   |                                           |       |
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| 10573 | A | Repeat this test for 4 times                                          |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10574 | R | 1st attempt passed                                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10575 | R | 2nd attempt passed                                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10576 | R | 3rd attempt passed                                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10577 | R | 4th attempt passed                                                    |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10578 | I | Public Announcements TC2                                              |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10579 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduPaPbR1 = 0.0         |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10580 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduPaPbR2 = 0.0         |  | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10581 | A | Pulse the switch 54S1 to the right to<br>activate PA announcement     |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10582 | R | Green lamp 54H2 is ON                                                 |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10583 | R | A beep sound can be heard in all saloon<br>speakers                   |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10584 | R | On Driver's screen (Home Page), PA<br>activation message is displayed |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10585 | A | Press the button 54S4 and hold it while<br>talking via the microphone |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10586 | R | Announcement can be heard in saloon<br>speakers of all cars           |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10587 | A | Release the button 54S4                                               |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10588 | A | Talk on the microphone                                                |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10589 | R | No sound can be heard in all cars                                     |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10590 | A | Pulse the switch 54S1 to the right to de-<br>activate PA announcement |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                                                                                                             |                                                                                   |    |   |                                           |       |
|-------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|---|-------------------------------------------|-------|
| 10591 | A | Green lamp 54H2 is OFF                                                                                                                                      |  | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10592 | A | On the driver's screen (Image above) select the "Public Address" virtual button. (NOTE variables below should be read immediately -they last for 2 seconds) |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10593 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduPaPbR1 = 1.0                                                                                               |                                                                                   | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10594 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduPaPbR2 = 1.0                                                                                               |                                                                                   | OK | 1 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10595 | R | Green lamp 54H2 is ON                                                                                                                                       |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10596 | R | PA announcement is activated                                                                                                                                |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10597 | A | On the driver's screen (Home Page) select the "Public Address" virtual button to end communication                                                          |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10598 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduPaPbR1 = 0.0                                                                                               |                                                                                   | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10599 | R | Read Defined Variable [TT]<br>(MPU1)Lo_PIS_Tc2DduPaPbR2 = 0.0                                                                                               |                                                                                   | OK | 0 | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10600 | R | Green lamp 54H2 is OFF                                                                                                                                      |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10601 | I | PA announcement is de-activated                                                                                                                             |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10602 | A | Press the button 54S4 and hold it while talking on the microphone                                                                                           |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10603 | R | Sound cannot be heard in all speakers                                                                                                                       |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10604 | A | Release the button 54S4                                                                                                                                     |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10605 | A | Remove active cab on TC1                                                                                                                                    |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10606 | A | Pulse the switch 54S1 to the right to activate PA announcement                                                                                              |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10607 | R | Green lamp 54H2 is OFF                                                                                                                                      |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10608 | R | No PA announcement activation showing on the Driver's screen                                                                                                |                                                                                   | OK |   | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |

|       |   |                                                                                                                                                  |                                                                                   |    |  |                                           |       |
|-------|---|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|--|-------------------------------------------|-------|
| 10609 | I | Ventilation Rack TC2                                                                                                                             |                                                                                   | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10610 | A | Follow the instruction below o how to test the ventilation rack                                                                                  |  | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10611 | R | All three fans of the ventilation rack are working                                                                                               |                                                                                   | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10612 | I | Pacis audio and displays test                                                                                                                    |                                                                                   | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10613 | I | This test is aimed at verifying that the Pacis system is working. This includes displays (all LEDs must be working in each display) and speakers |                                                                                   | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10614 | A | Launch the Pacis Test from the DDU                                                                                                               |                                                                                   | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10615 | R | All saloon speakers and displays are working on train                                                                                            |                                                                                   | OK |  | Tshembhani Khosa<br>446920<br>20.11.2025  | Train |
| 10616 | A | Stop the Pacis test                                                                                                                              |                                                                                   | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |
| 10617 | I | End of Test                                                                                                                                      |                                                                                   | OK |  | Siphesihle Mchunu<br>491465<br>20.11.2025 | Train |





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|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 29 – Dynamic Pre-Test

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### 29.1 Instructions list

### 29.1.1 Pre-Test

I - Information      A - Action      R - Result      NE - Not Executed

| N°    | Type | Instruction                                                                                                                               | File | Result status | Result value | Operator                                     | Vehicle |
|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|--------------|----------------------------------------------|---------|
| 10001 | I    | Dynamic Pre-Test                                                                                                                          |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10002 | I    | Train Normalisation                                                                                                                       |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10003 | A    | Whilst checking the LV cubicles in each Car, also check the dataplug ground cables if they are secured and tightened                      |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10004 | I    | TC1                                                                                                                                       |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10005 | R    | ALL LV1.1 connectors are connected and tightly secured with screws                                                                        |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10006 | R    | ALL LV2.1 connectors are connected and tightly secured with screws                                                                        |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10007 | R    | ALL LV7 connectors are connected and tightly secured with screws                                                                          |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10008 | R    | ALL HVAC Cubicle connectors are connected and tightly secured with screws                                                                 |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10009 | R    | ALL underframe connectors are connected and tightly secured with screws                                                                   |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10010 | R    | ALL inter-car connectors are connected and tightly secured with screws                                                                    |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10011 | A    | Take note of the sensor grades captured on HVAC web portal for TC1 and compare them with the ones on the HVAC name plate (ceiling) of Tc1 |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10012 | R    | The values of the HVAC sensor grades are the same                                                                                         |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10013 | I    | M4                                                                                                                                        |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10014 | R    | ALL LV3 connectors are connected and tightly secured with screws                                                                          |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |
| 10015 | R    | ALL LV6 connectors are connected and tightly secured with screws                                                                          |      | OK            |              | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train   |

|       |   |                                                                                                                                         |    |                                              |       |
|-------|---|-----------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------|-------|
| 10016 | R | ALL HVAC Cubicle connectors are connected and tightly secured with screws                                                               | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10017 | R | ALL underframe connectors are connected and tightly secured with screws                                                                 | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10018 | R | ALL inter-car connectors are connected and tightly secured with screws                                                                  | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10019 | A | Take note of the sensor grades captured on HVAC web portal for M4 and compare them with the ones on the HVAC name plate (ceiling) of M4 | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10020 | R | The values of the HVAC sensor grades are the same                                                                                       | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10021 | I | M1                                                                                                                                      | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10022 | R | ALL LV3 connectors are connected and tightly secured with screws                                                                        | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10023 | R | ALL LV6 connectors are connected and tightly secured with screws                                                                        | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10024 | R | ALL HVAC Cubicle connectors are connected and tightly secured with screws                                                               | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10025 | R | ALL underframe connectors are connected and tightly secured with screws                                                                 | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10026 | R | ALL inter-car connectors are connected and tightly secured with screws                                                                  | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10027 | A | Take note of the sensor grades captured on HVAC web portal for M1 and compare them with the ones on the HVAC name plate (ceiling) of M1 | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10028 | R | The values of the HVAC sensor grades are the same                                                                                       | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10029 | I | M2                                                                                                                                      | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10030 | R | ALL LV3 connectors are connected and tightly secured with screws                                                                        | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10031 | R | ALL LV4 connectors are connected and tightly secured with screws                                                                        | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10032 | R | ALL HVAC Cubicle connectors are connected and tightly secured with screws                                                               | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10033 | R | ALL underframe connectors are connected and tightly secured with screws                                                                 | OK | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |

|       |   |                                                                                                                                         |  |    |  |                                              |       |
|-------|---|-----------------------------------------------------------------------------------------------------------------------------------------|--|----|--|----------------------------------------------|-------|
| 10034 | R | ALL inter-car connectors are connected and tightly secured with screws                                                                  |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10035 | A | Take note of the sensor grades captured on HVAC web portal for M2 and compare them with the ones on the HVAC name plate (ceiling) of M2 |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10036 | R | The values of the HVAC sensor grades are the same                                                                                       |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10037 | I | M3                                                                                                                                      |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10038 | R | ALL LV3 connectors are connected and tightly secured with screws                                                                        |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10039 | R | ALL LV6 connectors are connected and tightly secured with screws                                                                        |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10040 | R | ALL HVAC Cubicle connectors are connected and tightly secured with screws                                                               |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10041 | R | ALL underframe connectors are connected and tightly secured with screws                                                                 |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10042 | R | ALL inter-car connectors are connected and tightly secured with screws                                                                  |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10043 | A | Take note of the sensor grades captured on HVAC web portal for M3 and compare them with the ones on the HVAC name plate (ceiling) of M3 |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10044 | R | The values of the HVAC sensor grades are the same                                                                                       |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10045 | I | TC2                                                                                                                                     |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10046 | R | ALL LV1.2 connectors are connected and tightly secured with screws                                                                      |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10047 | R | ALL LV2.2 connectors are connected and tightly secured with screws                                                                      |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10048 | R | ALL LV7 connectors are connected and tightly secured with screws                                                                        |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10049 | R | ALL HVAC Cubicle connectors are connected and tightly secured with screws                                                               |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10050 | R | ALL underframe connectors are connected and tightly secured with screws                                                                 |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10051 | R | ALL inter-car connectors are connected and tightly secured with screws                                                                  |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |

|       |   |                                                                                                                                           |  |    |  |                                              |       |
|-------|---|-------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|----------------------------------------------|-------|
| 10052 | A | Take note of the sensor grades captured on HVAC web portal for TC2 and compare them with the ones on the HVAC name plate (ceiling) of TC2 |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10053 | R | The values of the HVAC sensor grades are the same                                                                                         |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10054 | I | Brake Test                                                                                                                                |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10055 | A | Prepare the train in high voltage with active cab on TC1                                                                                  |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10056 | A | On the DDU test screen, run the BRAKE TEST by following the instructions on the screen                                                    |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10057 | R | After the BRAKE TEST is complete, all cars have passed                                                                                    |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10058 | A | Shut down the train by putting the battery contactor 18S1 in OFF position                                                                 |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10059 | I | Reduced Power Test                                                                                                                        |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10060 | A | Prepare the train in high voltage with active cab on TC1                                                                                  |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10061 | A | Set the Driving Mode Switch (30S1) to "DEPOT" position.                                                                                   |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10062 | A | Select the Reduced Power test on the DDU. (select one of the HV devices on the Home screen and access the Reduced Power Test)             |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10063 | A | Select a running direction (Forward or Reverse).                                                                                          |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10064 | I | REMEMBER TO PRESS THE DEAD MAN BUTTON OCCASIONALLY                                                                                        |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10065 | R | Check that all the conditions on the screen are satisfied (green box to the right of each condition)                                      |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10066 | A | Select RPT for M4 car                                                                                                                     |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10067 | R | RPT for M4 test successful                                                                                                                |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10068 | A | Close the HSCB                                                                                                                            |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10069 | A | Select RPT for M1car                                                                                                                      |  | OK |  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |

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| 10070 | R | RPT for M1 test successful                                                                                                       |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10071 | A | Close the HSCB                                                                                                                   |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10072 | A | Select RPT for M2 car                                                                                                            |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10073 | R | RPT for M2 test successful                                                                                                       |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10074 | A | Close the HSCB                                                                                                                   |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10075 | A | Select RPT for M3 car                                                                                                            |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10076 | R | RPT for M3 test successful                                                                                                       |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10077 | A | Close the HSCB                                                                                                                   |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10078 | I | Traction Test                                                                                                                    |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10079 | A | WARNING: Do not perform TRACTION TEST when the Reduced Power Test has failed.                                                    |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10080 | A | Prepare the train in high voltage with active cab on TC1                                                                         |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10081 | A | On the DDU Test Screen, press the virtual button TRACTION TEST and ensure that all the requirements are met to execute the test. |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10082 | R | After the Traction Test is complete, there are no traction faults logged on the DDU Event screen                                 |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10083 | I | Load requirements                                                                                                                |  | OK |          | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10084 | R | Read Undefined Variable [TT] SBK_M1CarWeight                                                                                     |  | OK | 36612.84 | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10085 | R | Read Undefined Variable [TT] SBK_M2CarWeight                                                                                     |  | OK | 39030.06 | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10086 | R | Read Undefined Variable [TT] SBK_M3CarWeight                                                                                     |  | OK | 37135.91 | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10087 | R | Read Undefined Variable [TT] SBK_M4CarWeight                                                                                     |  | OK | 35597.11 | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |

|       |   |                                                                    |  |    |           |                                              |       |
|-------|---|--------------------------------------------------------------------|--|----|-----------|----------------------------------------------|-------|
| 10088 | R | Read Undefined Variable [TT]<br>SBK_Tc1CarWeight                   |  | OK | 36320.17  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10089 | R | Read Undefined Variable [TT]<br>SBK_Tc2CarWeight                   |  | OK | 34619.54  | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10090 | A | Calculate the sum of all cars                                      |  | OK |           | Paseka Ditlhakanyane<br>491468<br>18.11.2025 | Train |
| 10091 | R | The sum of the weight for all carsResult<br>Max : x <= 223740 (kg) |  | OK | 219315.63 | Dilikani Ngubane<br>526515<br>20.11.2025     | Train |
| 10092 | I | End of Test                                                        |  | OK |           | Dilikani Ngubane<br>526515<br>20.11.2025     | Train |





Serial Tests Report  
TS312 – TFS  
RTR Train Functional Static Test Report

Document Reference  
GIB0000008899  
Version: A0

Emission date  
20/11/2025



|                                                                               |                                                    |                             |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|
| Serial Tests Report<br>TS312 – TFS<br>RTR Train Functional Static Test Report | Document Reference<br>GIB0000008899<br>Version: A0 | Emission date<br>20/11/2025 |
|-------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------|

## Section 30 – Report summaries

### 30.1 Results status

| Test Instruction Sheet                  | Compliant | Incomplete | Non-compliant |
|-----------------------------------------|-----------|------------|---------------|
| High Voltage Distribution               | X         |            |               |
| Energy Distribution 110V                | X         |            |               |
| Energy Distribution 400V AC             | X         |            |               |
| Computer Network and DDU Screen         | X         |            |               |
| Main Circuit Breaker Control            | X         |            |               |
| Cabin Control                           | X         |            |               |
| Internal Lighting                       | X         |            |               |
| Pantograph                              | X         |            |               |
| Air Production                          | X         |            |               |
| Monitoring Circuit Breakers             | X         |            |               |
| Air Conditioning                        | X         |            |               |
| Driving Command                         | X         |            |               |
| Holding and Parking Brake               | X         |            |               |
| Service Brake                           | X         |            |               |
| Emergency Brake Interlock               | X         |            |               |
| Fire Detection                          | X         |            |               |
| Passenger Doors                         | X         |            |               |
| Traction Interlock                      | X         |            |               |
| Deadman                                 | X         |            |               |
| Rescue Mode and Emergency Disconnection | X         |            |               |
| ERTMS                                   | X         |            |               |
| On-board train data recorder            | X         |            |               |
| External lights and Signaling           | X         |            |               |
| Train Ground Communication              | X         |            |               |
| Traction Converter                      | X         |            |               |
| CCTV Video Information                  | X         |            |               |

|                  |   |  |  |
|------------------|---|--|--|
| PACIS            | X |  |  |
| Dynamic Pre-Test | X |  |  |

## 30.2 Tools used

| Function | Tool name              | Tool number          | Next Calibration date |
|----------|------------------------|----------------------|-----------------------|
| 019_AIR  | Manometer              | Manometer            | 8/31/2026             |
| 025_NET  | Cable Analyser DSX5000 | Fluke machine_Gibela | 12/31/2025            |
| 040_SBK  | Manometer              | Manometer            | 8/31/2026             |
| 040_SUP  | Manometer              | Manometer            | 8/31/2026             |
| 044_UBK  | Manometer              | Manometer            | 8/31/2026             |
| 045_PBK  | Manometer              | Manometer            | 8/31/2026             |
| 050_DOR  | Pressure Meter         | Pressure Meter 2     | 7/31/2026             |
| 072_SGL  | Manometer              | Manometer            | 8/31/2026             |