

| PROJECT | CUSTOMER | TRAIN |
|-----------------|----------|-----------|
| Xtrapolis-PRASA | PRASA | 248 – TFD |

RTR Train Functional Dynamic Testing TS248 Report
 GIB0000007276



| | CREATED | VERIFIED | APPROVED | DISTRIBUTION |
|------------------|---------------|----------------|-----------------|---|
| Name | Vusumuzi ZULU | Sifiso LUKHELE | Kgomotso NKOANA | Confidentiality Category <i>Restricted</i> <i>Project</i> <i>Normal</i> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |
| Date | 27/09/2024 | 27/09/2024 | 27/09/2024 | Control Category <i>Controlled</i> <i>Not Controlled</i> <input checked="" type="checkbox"/> <input type="checkbox"/> |
| Signature | | | | Language EN |

This report has been automatically generated from TES version 1

Table of modifications

| Rev | Date | Modifications Content | Writer |
|-----|------------|-----------------------|---------------|
| A0 | 27/09/2024 | Creation | Vusumuzi ZULU |

Internal validations

| | Name | Function | Date | Signature |
|-----------------|-----------------|---------------------|------------|---|
| Creator | Vusumuzi ZULU | EPU Manager | 27/09/2024 | X  Vusumuzi ZULU EPU Manager |
| Verifier | Sifiso LUKHELE | Serial Test Manager | 27/09/2024 | X  Sifiso LUKHELE Serial Test Manager |
| Approver | Kgomotso NKOANA | Test Expert | 27/09/2024 | X  Kgomotso NKOANA Test Expert |

Execution Plan

| | |
|-------------------|------------|
| Start Date | 27/09/2024 |
| End Date | 28/09/2024 |

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|---|--|-----------------------------|

Section 1 – Purpose / Objectives



Serial Tests Report
TS248 – TFD
RTR Train Functional Static Test Report

Document Reference
GIB0000007276
Version: A0

Emission date
27/09/2024



Serial Tests Report
TS248 – TFD
RTR Train Functional Static Test Report

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Section 3 – Dynamic

3.2 Instructions list

3.2.1 TFD-Dynamic

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

| N° | Type | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|--|---|---------------|--------------|-------------------------------|---------|
| 10001 | I | Dynamic Test | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10002 | I | Initial conditions | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10003 | I | This test shall be done under dry weather conditions i.e. no rain | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10004 | I | This test shall be carried out on a straight rail(R>=700m). The track must be well bedded with a maximum gradient =<5% of 3 km length. The track must be dry and clean before commencing the test to prevent degraded adhesion conditions. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10005 | I | The catenary nominal voltage should be 3.3 +/- 0.3 kV DC. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10006 | I | The test must be done with a complete 6-car configuration Prasa X'Trapolis Train. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10007 | I | All routine static tests must be completed before commencing with this test, unless authorization has been given by Management | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10008 | I | Dynamic Pre-Test has been completed | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10009 | I | The test shall be performed in M1 load configuration | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10010 | I | Have a laptop ready with Train Tracer installed and loaded with the dashboard attached. |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10011 | I | Refer to this image for all lamp in alarm module |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10012 | I | Initial Conditions | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10013 | I | Deadman switch 60S1 is in NORMAL position on both TC cars | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10014 | I | The Traction Isolation switch 22S1 should be in NORMAL position on both TC cars | | OK | | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|---|----|---------|-------------------------------|-------|
| 10015 | A | Put the ERTMS switch 62S1 in ISOLATION position in both TC cars | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10016 | A | Apply the Safety procedure for movements before starting the test below | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10017 | I | All traction units are in black colour on the DDU maintenance screen | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10018 | A | Prepare the train in high voltage with active cab on TC1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10019 | R | Read Min [TT] BKT_LineVoltageGl : 2700<= x | OK | 3316.53 | Paseka Ditlhakanyane - 491468 | Train |
| 10020 | I | Movement preparation | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10021 | A | Put the switch 45S1 to 0 position to release the parking brake | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10022 | A | Select Driving Mode to EFFORT position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10023 | A | Put the direction selector switch in FORWARD position in TC1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10024 | R | Lamp 31H1 is "ON" on the alarm module | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10025 | R | TA appears on DDU screen | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10026 | A | Force [TT] (TBCU1)DSP2_WR_inv_B_inv_on = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10027 | A | Force [TT] (TBCU2)DSP2_WR_inv_B_inv_on = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10028 | A | Force [TT] (TBCU3)DSP2_WR_inv_B_inv_on = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10029 | A | Force [TT] (TBCU4)DSP2_WR_inv_B_inv_on = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10030 | A | Slowly move the Master Controller to TRACTION position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10031 | R | The train does not move | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10032 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu1EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|---|----|---|----------------------------------|-------|
| 10033 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu2EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10034 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu3EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10035 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu4EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10036 | A | Release [TT] (TBCU1)DSP2_WR_inv_B_inv_on | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10037 | A | Release [TT] (TBCU2)DSP2_WR_inv_B_inv_on | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10038 | A | Release [TT] (TBCU3)DSP2_WR_inv_B_inv_on | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10039 | A | Release [TT] (TBCU4)DSP2_WR_inv_B_inv_on | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10040 | A | Put the direction selector switch in NEUTRAL position in TC1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10041 | R | Read Defined Variable [TT] (MPU1)bcu1_tlineb = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10042 | R | Read Defined Variable [TT] (MPU1)li_drc_tc1dsnozeror1 = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10043 | A | Put the direction selector switch to FORWARD and again in NEUTRAL position to reset the emergency brake | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10044 | I | Traction and Electric Brake - Wheel Turn Test | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10045 | A | Prepare and run Dynamic dashboard | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10046 | A | Record and SAVE the above dashboard for each car | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10047 | I | Traction and Brake M4 - Wheel Turn Test | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10048 | A | Force [TT] (TBCU1)DSP2_WR_inv_B_inv_on = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10049 | A | Force [TT] (TBCU2)DSP2_WR_inv_B_inv_on = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10050 | A | Force [TT] | OK | | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|---|----|-------|-------------------------------|-------|--|
| | | (TBCU3)DSP2_WR_inv_B_inv_on = 0.0 | | | | | |
| 10051 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu1TcuDrinC1 = 1.0 | OK | 1 | Paseka Ditlhakanyane - 491468 | Train | |
| 10052 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu2TcuDrinC2 = 1.0 | OK | 1 | Paseka Ditlhakanyane - 491468 | Train | |
| 10053 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu3TcuDrinC3 = 1.0 | OK | 1 | Paseka Ditlhakanyane - 491468 | Train | |
| 10054 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu4TcuDrinC4 = 1.0 | OK | 1 | Paseka Ditlhakanyane - 491468 | Train | |
| 10055 | A | Put the direction selector switch in FORWARD position | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10056 | A | Put the Master controller in 100% TRACTION immediately, accelerate to speed 15 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10057 | R | The train is moving forward towards TC1 direction | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10058 | R | Read Min [TT] (MPU1)BKT_Tbcu4EffAchPerc : 1<= x | OK | 100 | Paseka Ditlhakanyane - 491468 | Train | |
| 10059 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu2EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train | |
| 10060 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu3EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train | |
| 10061 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu1EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train | |
| 10062 | I | For FORWARD direction: Speed sensor 1 axle 1 (+) Speed sensor 2 axle 1 (direction) (-) Speed sensor axle 2 (+) Speed sensor axle 3 (+) Speed sensor axle 4 (+) | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10063 | R | Read Min [TT] (TBCU4)dsp2_rd_inv_fq_axle0_4 : 1<= x | OK | 5.05 | Paseka Ditlhakanyane - 491468 | Train | |
| 10064 | R | Result Max [TT] (TBCU4)dsp2_rd_inv_fq_axle1_4 : x <= 0 | OK | -5.41 | Paseka Ditlhakanyane - 491468 | Train | |
| 10065 | R | Read Min [TT] (TBCU4)dsp2_rd_inv_fq_axle2_4 : 1<= x | OK | 5.71 | Paseka Ditlhakanyane - 491468 | Train | |

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|-------|---|---|----|-------|-------------------------------|-------|
| 10066 | R | Read Min [TT] (TBCU4)dsp2_rd_inv_fq_axle3_4 : 1<= x | OK | 6.09 | Paseka Ditlhakanyane - 491468 | Train |
| 10067 | R | Read Min [TT] (TBCU4)dsp2_rd_inv_fq_axle4_4 : 1<= x | OK | 6.47 | Paseka Ditlhakanyane - 491468 | Train |
| 10068 | A | Put the Master controller in BRAKE position until the train comes to a complete stop | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10069 | A | Put the direction selector switch in REVERSE position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10070 | A | Put the Master controller in TRACTION position and slowly accelerate to speed <5 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10071 | R | The train is moving backward towards TC2 direction | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10072 | R | Result Max [TT] (TBCU4)dsp2_rd_inv_fq_axle0_4 : x <= 0 | OK | -1.15 | Paseka Ditlhakanyane - 491468 | Train |
| 10073 | R | Read Min [TT] (TBCU4)dsp2_rd_inv_fq_axle1_4 : 1<= x | OK | 1.47 | Paseka Ditlhakanyane - 491468 | Train |
| 10074 | A | Put the Master controller in BRAKE position until the train comes to a complete stop | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10075 | A | Release [TT] (TBCU1)DSP2_WR_inv_B_inv_on | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10076 | I | Traction and Brake M1 - Wheel Turn Test | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10077 | A | Force [TT] (TBCU4)DSP2_WR_inv_B_inv_on = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10078 | A | Put the direction selector switch in FORWARD position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10079 | A | Put the Master controller in 100% TRACTION immediately, accelerate to speed 15 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10080 | R | The train is moving forward towards TC1 direction | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10081 | R | Read Min [TT] (MPU1)BKT_Tbcu1EffAchPerc : 1<= x | OK | 100 | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|---|----|-------|----------------------------------|-------|
| 10082 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu2EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10083 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu3EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10084 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu4EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10085 | R | Read Min [TT] (TBCU1)dsp2_rd_inv_fq_axle0_1 : 1<= x | OK | 3.59 | Paseka Ditlhakanyane - 491468 | Train |
| 10086 | R | Result Max [TT] (TBCU1)dsp2_rd_inv_fq_axle1_1 : x <= 0 | OK | -3.98 | Paseka Ditlhakanyane - 491468 | Train |
| 10087 | R | Read Min [TT] (TBCU1)dsp2_rd_inv_fq_axle2_1 : 1<= x | OK | 4.38 | Paseka Ditlhakanyane - 491468 | Train |
| 10088 | R | Read Min [TT] (TBCU1)dsp2_rd_inv_fq_axle3_1 : 1<= x | OK | 4.81 | Paseka Ditlhakanyane - 491468 | Train |
| 10089 | R | Read Min [TT] (TBCU1)dsp2_rd_inv_fq_axle4_1 : 1<= x | OK | 5.17 | Paseka Ditlhakanyane - 491468 | Train |
| 10090 | A | Put the Master controller in BRAKE position until the train comes to a complete stop | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10091 | A | Put the direction selector switch in REVERSE position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10092 | A | Put the Master controller in TRACTION position and slowly accelerate to speed <5 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10093 | R | The train is moving backward towards TC2 direction | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10094 | R | Result Max [TT] (TBCU1)dsp2_rd_inv_fq_axle0_1 : x <= 0 | OK | -2.33 | Paseka Ditlhakanyane - 491468 | Train |
| 10095 | R | Read Min [TT] (TBCU1)dsp2_rd_inv_fq_axle1_1 : 1<= x | OK | 2.51 | Paseka Ditlhakanyane - 491468 | Train |
| 10096 | A | Put the Master controller in BRAKE position until the train comes to a complete stop | OK | | Paseka Ditlhakanyane - 491468 | Train |

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| 10097 | A | Release [TT] (TBCU2)DSP2_WR_inv_B_inv_on | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10098 | I | Traction and Brake M2 - Wheel Turn Test | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10099 | A | Force [TT] (TBCU1)DSP2_WR_inv_B_inv_on = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10100 | A | Put the direction selector switch in FORWARD position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10101 | A | Put the Master controller in 100% TRACTION immediately, accelerate to speed 15 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10102 | R | The train moves forward towards TC1 direction | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10103 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu1EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10104 | R | Read Min [TT] (MPU1)BKT_Tbcu2EffAchPerc : 1<= x | OK | 100 | Paseka Ditlhakanyane - 491468 | Train |
| 10105 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu3EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10106 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu4EffAchPerc = 0.0 | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10107 | R | Result Max [TT] (TBCU2)dsp2_rd_inv_fq_axle0_2 : x <= 0 | OK | -3.84 | Paseka Ditlhakanyane - 491468 | Train |
| 10108 | R | Read Min [TT] (TBCU2)dsp2_rd_inv_fq_axle1_2 : 1<= x | OK | 4.17 | Paseka Ditlhakanyane - 491468 | Train |
| 10109 | R | Read Min [TT] (TBCU2)dsp2_rd_inv_fq_axle2_2 : 1<= x | OK | 4.45 | Paseka Ditlhakanyane - 491468 | Train |
| 10110 | R | Read Min [TT] (TBCU2)dsp2_rd_inv_fq_axle3_2 : 1<= x | OK | 4.77 | Paseka Ditlhakanyane - 491468 | Train |
| 10111 | R | Read Min [TT] (TBCU2)dsp2_rd_inv_fq_axle4_2 : 1<= x | OK | 5.11 | Paseka Ditlhakanyane - 491468 | Train |
| 10112 | A | Put the Master controller in BRAKE position until the train comes to a complete stop | OK | | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|---|--|----|-------|-------------------------------|-------|
| 10113 | A | Put the direction selector switch in REVERSE position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10114 | A | Put the Master controller in TRACTION position and slowly accelerate to speed <5 km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10115 | R | The train moves backward towards TC2 direction | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10116 | R | Read Min [TT] (TBCU2)dsp2_rd_inv_fq_axle0_2 : 1<= x | | OK | 1.94 | Paseka Ditlhakanyane - 491468 | Train |
| 10117 | R | Result Max [TT] (TBCU2)dsp2_rd_inv_fq_axle1_2 : x <= 0 | | OK | -2.15 | Paseka Ditlhakanyane - 491468 | Train |
| 10118 | A | Put the Master controller in BRAKE position until the train comes to a complete stop | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10119 | A | Release [TT] (TBCU3)DSP2_WR_inv_B_inv_on | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10120 | I | Traction and Brake M3 - Wheel Turn Test | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10121 | A | Force [TT] (TBCU2)DSP2_WR_inv_B_inv_on = 0.0 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10122 | A | Put the direction selector switch in FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10123 | A | Put the Master controller in 100% TRACTION immediately, accelerate to speed 15 km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10124 | R | The train moves forward towards TC1 direction | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10125 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu1EffAchPerc = 0.0 | | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10126 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu2EffAchPerc = 0.0 | | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10127 | R | Read Min [TT] (MPU1)BKT_Tbcu3EffAchPerc : 1<= x | | OK | 100 | Paseka Ditlhakanyane - 491468 | Train |
| 10128 | R | Read Defined Variable [TT] (MPU1)BKT_Tbcu4EffAchPerc = 0.0 | | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10129 | R | Result Max [TT] | | OK | -5.76 | Paseka Ditlhakanyane - 491468 | Train |

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| | | (TBCU3)dsp2_rd_inv_fq_axle0_3 : x <= 0 | | | | | |
| 10130 | R | Read Min [TT] (TBCU3)dsp2_rd_inv_fq_axle1_3 : 1<= x | OK | 5.97 | Paseka Ditlhakanyane - 491468 | Train | |
| 10131 | R | Read Min [TT] (TBCU3)dsp2_rd_inv_fq_axle2_3 : 1<= x | OK | 6.19 | Paseka Ditlhakanyane - 491468 | Train | |
| 10132 | R | Read Min [TT] (TBCU3)dsp2_rd_inv_fq_axle3_3 : 1<= x | OK | 6.3 | Paseka Ditlhakanyane - 491468 | Train | |
| 10133 | R | Read Min [TT] (TBCU3)dsp2_rd_inv_fq_axle4_3 : 1<= x | OK | 6.48 | Paseka Ditlhakanyane - 491468 | Train | |
| 10134 | A | Put the Master controller in BRAKE position until the train comes to a complete stop | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10135 | A | Put the direction selector switch in REVERSE position | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10136 | A | Put the Master controller in TRACTION position and slowly accelerate to speed <5 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10137 | R | The train moves backward towards TC2 direction | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10138 | R | Read Min [TT] (TBCU3)dsp2_rd_inv_fq_axle0_3 : 1<= x | OK | 1.07 | Paseka Ditlhakanyane - 491468 | Train | |
| 10139 | R | Result Max [TT] (TBCU3)dsp2_rd_inv_fq_axle1_3 : x <= 0 | OK | -1.31 | Paseka Ditlhakanyane - 491468 | Train | |
| 10140 | A | Put the Master controller in BRAKE position until the train comes to a complete stop | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10141 | I | Wheel Turn Test Results Check | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10142 | A | Analyse the recorded results before continuing with the test. If the results are out of range, the test must be STOPPED immediately, and the respective car motor wiring needs to be checked. | OK | | Paseka Ditlhakanyane - 491468 | Train | |
| 10143 | R | M4 - Time taken to reach 15km/h Result Max : x <= 24 (s) | OK | 20.98 | Paseka Ditlhakanyane - 491468 | Train | |
| 10144 | R | M1 - Time taken to reach 15km/h Result Max : x <= 24 (s) | OK | 19.49 | Paseka Ditlhakanyane - 491468 | Train | |

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| 10145 | R | M2 - Time taken to reach 15km/h Result Max : x <= 24 (s) | OK | 19.48 | Paseka Ditlhakanyane - 491468 | Train |
| 10146 | R | M3 - Time taken to reach 15km/h Result Max : x <= 24 (s) | OK | 20.37 | Paseka Ditlhakanyane - 491468 | Train |
| 10147 | R | All M cars reach 15km/h in less than 24 seconds | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10148 | I | All Motors Test Run | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10149 | A | Release [TT] (TBCU1)DSP2_WVR_inv_B_inv_on | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10150 | A | Release [TT] (TBCU2)DSP2_WVR_inv_B_inv_on | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10151 | A | Release [TT] (TBCU4)DSP2_WVR_inv_B_inv_on | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10152 | A | Put the direction selector switch in FORWARD position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10153 | A | Slowly move the Master Controller to TRACTION position until the train speed reaches 15km/h | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10154 | R | Read Defined Variable [TT] (MPU1)bcu1_tlnb = 1.0 | OK | 1 | Paseka Ditlhakanyane - 491468 | Train |
| 10155 | R | Read Defined Variable [TT] (MPU1)li_drc_tc1dsnozeror1 = 1.0 | OK | 1 | Paseka Ditlhakanyane - 491468 | Train |
| 10156 | A | Put the Master Controller in OFF position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10157 | R | The train comes to a standstill | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10158 | I | Wheel Diameter Calibration | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10159 | I | Following conditions need to be met in order to successfully calibrate the wheel diameter. Ensure that the OTDR reference value of a Wheel Diameter has been entered. | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10160 | A | 1) Train running on a straight track 2) Effort Driving Mode 3) Speed>15km/h 4) No wheel slippage 5) No Emergency Braking 6) Traction Effort = 0% (Coasting) 7) All Traction and Braking Units are working | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10161 | A | On the DDU screen select "First Acquisition Request" | OK | | Paseka Ditlhakanyane - 491468 | Train |

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| 10162 | A | Check if the wheel diameter for each axle is between 838 mm and 842 mm, see picture attached. |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10163 | R | Read Min/Max [TT] (MPU1)BKT_Bcu1WhDiamAx1 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10164 | R | Read Min/Max [TT] (MPU1)BKT_Bcu1WhDiamAx2 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10165 | R | Read Min/Max [TT] (MPU1)BKT_Bcu1WhDiamAx3 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10166 | R | Read Min/Max [TT] (MPU1)BKT_Bcu1WhDiamAx4 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10167 | R | Read Min/Max [TT] (MPU1)BKT_Bcu2WhDiamAx1 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10168 | R | Read Min/Max [TT] (MPU1)BKT_Bcu2WhDiamAx2 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10169 | R | Read Min/Max [TT] (MPU1)BKT_Bcu2WhDiamAx3 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10170 | R | Read Min/Max [TT] (MPU1)BKT_Bcu2WhDiamAx4 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10171 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu1WhDiamAx1 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10172 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu1WhDiamAx2 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10173 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu1WhDiamAx3 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10174 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu1WhDiamAx4 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10175 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu2WhDiamAx1 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |

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| 10176 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu2WhDiamAx2 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10177 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu2WhDiamAx3 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10178 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu2WhDiamAx4 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10179 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu3WhDiamAx1 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10180 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu3WhDiamAx2 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10181 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu3WhDiamAx3 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10182 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu3WhDiamAx4 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10183 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu4WhDiamAx1 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10184 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu4WhDiamAx2 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10185 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu4WhDiamAx3 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10186 | R | Read Min/Max [TT] (MPU1)BKT_Tbcu4WhDiamAx4 : 839<= x <= 841 | | OK | 840 | Paseka Ditlhakanyane - 491468 | Train |
| 10187 | I | Brake Tests | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10188 | I | For each test run, ensure the following are done: -Prepare the dashboard on train tracer to record train performance -Activate the relevant cab -Login to DDU as Maintainer (70979080) -Save each performance (only for speed of 60Km/h) result as .CVS on local drive of service laptop -Ensure there is enough space remaining for each run, else put the train at the end of the line | | OK | | Paseka Ditlhakanyane - 491468 | Train |

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| | | -From 40km/h tests IT IS FORBIDDEN to do more than one run at a time on the track, each run should start at the beginning/end of the track | | | | |
| 10189 | I | Initial Conditions for each car: -ERTMS is ISOLATED -Driving mode set to EFFORT mode | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10190 | I | ALL the brake tests should be done from the extremities of the test track | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10191 | I | Emergency Brake @ 20km/h TC1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10192 | A | Force [TT] SBK_BrakeDist = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10193 | A | Release [TT] SBK_BrakeDist | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10194 | A | Put the direction selector switch in FORWARD position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10195 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 20 +/- 2 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10196 | A | Push the emergency brake mushroom button 44S1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10197 | R | Result Max [TT] SBK_BrakeDist : $x \leq 42$ | OK | 0 | Paseka Ditlhakanyane - 491468 | Train |
| 10198 | A | Put the direction selector switch in NEUTRAL position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10199 | A | Release the emergency brake button 44S1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10200 | I | Service Brake @ 30km/h TC1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10201 | A | Force [TT] SBK_BrakeDist = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10202 | A | Release [TT] SBK_BrakeDist | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10203 | A | Put the direction selector switch in FORWARD position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10204 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 30 +/- 2 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10205 | A | Put the Master Controller in 100% BRAKE position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10206 | R | Result Max [TT] SBK_BrakeDist : $x \leq 87$ | OK | 51 | Paseka Ditlhakanyane - 491468 | Train |

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| 10207 | A | Put the direction selector switch in NEUTRAL position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10208 | I | Emergency Brake @ 40km/h TC1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10209 | A | Force [TT] SBK_BrakeDist = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10210 | A | Release [TT] SBK_BrakeDist | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10211 | A | Put the direction selector switch in FORWARD position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10212 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 40 +/- 2 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10213 | A | Push the emergency brake mushroom button 44S1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10214 | R | Result Max [TT] SBK_BrakeDist : $x \leq 80$ | OK | 52 | Paseka Ditlhakanyane - 491468 | Train |
| 10215 | A | Put the direction selector switch in NEUTRAL position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10216 | A | Release the emergency brake button 44S1 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10217 | I | Service Brake @ 20km/h TC2 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10218 | A | Force [TT] SBK_BrakeDist = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10219 | A | Release [TT] SBK_BrakeDist | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10220 | A | Put the direction selector switch in FORWARD position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10221 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 20 +/- 2 km/h | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10222 | A | Put the Master Controller in OFF position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10223 | R | Result Max [TT] SBK_BrakeDist : $x \leq 60$ | OK | 23 | Paseka Ditlhakanyane - 491468 | Train |
| 10224 | A | Put the direction selector switch in NEUTRAL position | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10225 | I | Emergency Brake @ 30km/h TC2 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10226 | A | Force [TT] SBK_BrakeDist = 0.0 | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10227 | A | Release [TT] SBK_BrakeDist | OK | | Paseka Ditlhakanyane - 491468 | Train |

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| 10228 | A | Put the direction selector switch in FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10229 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 30 +/- 2 km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10230 | A | Put the Master Controller in OFF position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10231 | A | Push the emergency brake mushroom button 44S1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10232 | R | Result Max [TT] SBK_BrakeDist : $x \leq 62$ | | OK | 40 | Paseka Ditlhakanyane - 491468 | Train |
| 10233 | A | Put the direction selector switch in NEUTRAL position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10234 | A | Release the emergency brake button 44S1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10235 | I | Service Brake @ 40km/h TC2 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10236 | A | Force [TT] SBK_BrakeDist = 0.0 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10237 | A | Release [TT] SBK_BrakeDist | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10238 | A | Put the direction selector switch in FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10239 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 40 +/- 2 km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10240 | A | Put the Master Controller in 100% BRAKE position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10241 | R | Result Max [TT] SBK_BrakeDist : $x \leq 113$ | | OK | 72 | Paseka Ditlhakanyane - 491468 | Train |
| 10242 | A | Put the direction selector switch in NEUTRAL position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10243 | I | ERTMS Dynamic | | OK | | Celiwe Sokhela - 491462 | Train |
| 10244 | A | Put the ERTMS switch 62S1 in NORMAL position in both TC cars | | OK | | Celiwe Sokhela - 491462 | Train |
| 10245 | A | Active cab on TC1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10246 | A | Use the procedure attached for ERTMS dynamic commissioning. |  | OK | | Celiwe Sokhela - 491462 | Train |
| 10247 | R | Dynamic ERTMS commissioning has been completed successfully | | OK | | Celiwe Sokhela - 491462 | Train |

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| 10248 | I | HIGH SPEED TEST | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10249 | I | For each and the following high-speed test make sure that the train is positioned at the start of the track, and the driver can see the Eurobalise on the track as shown in the picture attached. |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10250 | I | Service Brake @ 50km/h TC1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10251 | A | Use maintenance code (70979080) to log into DMI screen and do start of mission | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10252 | A | Force [TT] SBK_BrakeDist = 0.0 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10253 | A | Release [TT] SBK_BrakeDist | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10254 | A | Put the direction selector switch in FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10255 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 50 +/- 2 km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10256 | A | Put the Master Controller in 100% BRAKE position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10257 | R | Result Max [TT] SBK_BrakeDist : x <= 142 | | OK | 95 | Paseka Ditlhakanyane - 491468 | Train |
| 10258 | A | Put the direction selector switch in NEUTRAL position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10259 | I | Emergency Brake @ 50km/h TC2 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10260 | A | Use maintenance code (70979080) to log into DMI screen and do start of mission | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10261 | A | Force [TT] SBK_BrakeDist = 0.0 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10262 | A | Release [TT] SBK_BrakeDist | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10263 | A | Put the direction selector switch in FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10264 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 50 +/- 2 km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10265 | A | Push the emergency brake mushroom button 44S1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10266 | R | Result Max [TT] SBK_BrakeDist : x <= 100 | | OK | 96 | Paseka Ditlhakanyane - 491468 | Train |

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| 10267 | A | Put the direction selector switch in NEUTRAL position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10268 | A | Release the emergency brake button 44S1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10269 | I | For the following tests, ensure the dashboard is running and record each result and save each file as .CSV | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10270 | I | Service Brake @ 60km/h TC1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10271 | A | Use maintenance code (70979080) to log into DMI screen and do start of mission | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10272 | A | Put the train in starting position on the track | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10273 | A | Force [TT] SBK_BrakeDist = 0.0 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10274 | A | Release [TT] SBK_BrakeDist | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10275 | A | Put the direction selector switch in FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10276 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 60 +/- 2 km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10277 | A | Put the Master Controller in 100% BRAKE position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10278 | R | Result Max [TT] SBK_BrakeDist : x <= 171 | | OK | 137 | Paseka Ditlhakanyane - 491468 | Train |
| 10279 | A | Put the direction selector switch in NEUTRAL position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10280 | I | Service Brake @ 60km/h TC2 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10281 | A | Use maintenance code (70979080) to log into DMI screen and do start of mission | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10282 | A | Force [TT] SBK_BrakeDist = 0.0 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10283 | A | Release [TT] SBK_BrakeDist | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10284 | A | Put the direction selector switch in FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10285 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 60 +/- 2 km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |

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| 10286 | A | Put the Master Controller in 100% BRAKE position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10287 | R | Result Max [TT] SBK_BrakeDist : x <= 171 | | OK | 145 | Paseka Ditlhakanyane - 491468 | Train |
| 10288 | A | Put the direction selector switch in NEUTRAL position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10289 | I | Emergency brake @ 60kh/h TC1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10290 | A | Use maintenance code (70979080) to log into DMI screen and do start of mission | | OK | | Celiwe Sokhela - 491462 | Train |
| 10291 | A | Force [TT] SBK_BrakeDist = 0.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10292 | A | Release [TT] SBK_BrakeDist | | OK | | Celiwe Sokhela - 491462 | Train |
| 10293 | A | Put the direction selector switch in FORWARD position | | OK | | Celiwe Sokhela - 491462 | Train |
| 10294 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 60 +/- 2 km/h | | OK | | Celiwe Sokhela - 491462 | Train |
| 10295 | A | Push the emergency brake mushroom button 44S1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10296 | R | Result Max [TT] SBK_BrakeDist : x <= 121 | | OK | 108 | Celiwe Sokhela - 491462 | Train |
| 10297 | A | Put the direction selector switch in NEUTRAL position | | OK | | Celiwe Sokhela - 491462 | Train |
| 10298 | A | Release the emergency brake button 44S1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10299 | A | Put the train at the end of the line | | OK | | Celiwe Sokhela - 491462 | Train |
| 10300 | I | Remember to save the .csv result file on the local drive of the PC used | | OK | | Celiwe Sokhela - 491462 | Train |
| 10301 | I | Emergency brake @ 60km/h TC2 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10302 | A | Use maintenance code (70979080) to log into DMI screen and do start of mission | | OK | | Celiwe Sokhela - 491462 | Train |
| 10303 | A | Force [TT] SBK_BrakeDist = 0.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10304 | A | Release [TT] SBK_BrakeDist | | OK | | Celiwe Sokhela - 491462 | Train |
| 10305 | A | Put the direction selector switch in FORWARD position | | OK | | Celiwe Sokhela - 491462 | Train |

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| 10306 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 60 +/- 2 km/h | | OK | | Celiwe Sokhela - 491462 | Train |
| 10307 | A | Push the emergency brake mushroom button 44S1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10308 | R | Result Max [TT] SBK_BrakeDist : x <= 121 | | OK | 111 | Celiwe Sokhela - 491462 | Train |
| 10309 | A | Release the emergency brake button 44S1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10310 | A | Put the direction selector switch in NEUTRAL position | | OK | | Celiwe Sokhela - 491462 | Train |
| 10311 | I | Remember to save the .csv result file on the local drive of the PC used | | OK | | Celiwe Sokhela - 491462 | Train |
| 10312 | I | Degraded mode @60 km/h TC1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10313 | A | Use maintenance code (70979080) to log into DMI screen and do start of mission | | OK | | Celiwe Sokhela - 491462 | Train |
| 10314 | I | Degraded mode simulation | | OK | | Celiwe Sokhela - 491462 | Train |
| 10315 | A | Force [TT] (TBCU1)f55_b_br_auth = 0.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10316 | A | Force [TT] (TBCU2)f55_b_br_auth = 0.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10317 | A | Force [TT] (TBCU3)f55_b_br_auth = 0.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10318 | A | Force [TT] (TBCU4)f55_b_br_auth = 0.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10319 | A | Put the direction selector switch in FORWARD position | | OK | | Celiwe Sokhela - 491462 | Train |
| 10320 | R | Lamp 31H1 is "ON" on the alarm module | | OK | | Celiwe Sokhela - 491462 | Train |
| 10321 | R | TA appears on DDU screen | | OK | | Celiwe Sokhela - 491462 | Train |
| 10322 | A | Prepare the dashboard on Train Tracer to record the train performance | | OK | | Celiwe Sokhela - 491462 | Train |
| 10323 | A | Force [TT] SBK_BrakeDist = 0.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10324 | A | Release [TT] SBK_BrakeDist | | OK | | Celiwe Sokhela - 491462 | Train |
| 10325 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 60 +/- 2 km/h | | OK | | Celiwe Sokhela - 491462 | Train |
| 10326 | A | Put the Master Controller in 100% BRAKE position | | OK | | Celiwe Sokhela - 491462 | Train |

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|-------|---|--|----|-----|-------------------------|-------|
| 10327 | R | Result Max [TT] SBK_BrakeDist : x <= 171 | OK | 143 | Celiwe Sokhela - 491462 | Train |
| 10328 | A | Put the train at the end of the line | OK | | Celiwe Sokhela - 491462 | Train |
| 10329 | I | Remember to save the .csv result file on the local drive of the PC used | OK | | Celiwe Sokhela - 491462 | Train |
| 10330 | I | Degraded mode @ 60km/h TC2 | OK | | Celiwe Sokhela - 491462 | Train |
| 10331 | A | Use maintenance code (70979080) to log into DMI screen and do start of mission | OK | | Celiwe Sokhela - 491462 | Train |
| 10332 | A | Put the direction selector switch in FORWARD position | OK | | Celiwe Sokhela - 491462 | Train |
| 10333 | R | Lamp 31H1 is ON on the alarm module | OK | | Celiwe Sokhela - 491462 | Train |
| 10334 | R | TA appears on DDU screen | OK | | Celiwe Sokhela - 491462 | Train |
| 10335 | A | Prepare the dashboard on Train Tracer to record the train performance | OK | | Celiwe Sokhela - 491462 | Train |
| 10336 | A | Force [TT] SBK_BrakeDist = 0.0 | OK | | Celiwe Sokhela - 491462 | Train |
| 10337 | A | Release [TT] SBK_BrakeDist | OK | | Celiwe Sokhela - 491462 | Train |
| 10338 | A | Put the Master Controller in MAX TRACTION position until the train speed reaches 60 +/- 2 km/h | OK | | Celiwe Sokhela - 491462 | Train |
| 10339 | A | Put the Master Controller in 100% BRAKE position | OK | | Celiwe Sokhela - 491462 | Train |
| 10340 | R | Result Max [TT] SBK_BrakeDist : x <= 171 | OK | 153 | Celiwe Sokhela - 491462 | Train |
| 10341 | A | Release [TT] (TBCU1)f55_b_br_auth | OK | | Celiwe Sokhela - 491462 | Train |
| 10342 | A | Release [TT] (TBCU2)f55_b_br_auth | OK | | Celiwe Sokhela - 491462 | Train |
| 10343 | A | Release [TT] (TBCU3)f55_b_br_auth | OK | | Celiwe Sokhela - 491462 | Train |
| 10344 | A | Release [TT] (TBCU4)f55_b_br_auth | OK | | Celiwe Sokhela - 491462 | Train |
| 10345 | I | Remember to save the .csv result file on the local drive of the PC used | OK | | Celiwe Sokhela - 491462 | Train |
| 10346 | A | Put the train at the end of the line | OK | | Celiwe Sokhela - 491462 | Train |
| 10347 | I | Normal service brake operation | OK | | Celiwe Sokhela - 491462 | Train |
| 10348 | A | Active cab on TC1 | OK | | Celiwe Sokhela - 491462 | Train |

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|-------|---|---|----|-----|--|-------------------------|-------|
| 10349 | A | Put the direction selector switch in FORWARD position | OK | | | Celiwe Sokhela - 491462 | Train |
| 10350 | R | Lamp 31H1 is "ON" on the alarm module | OK | | | Celiwe Sokhela - 491462 | Train |
| 10351 | R | TA appears on DDU screen | OK | | | Celiwe Sokhela - 491462 | Train |
| 10352 | A | Put the Master controller in TRACTION position until the train speed reaches 10km/h | OK | | | Celiwe Sokhela - 491462 | Train |
| 10353 | A | Put the Master controller in LOW BRAKE position until the train reaches a speed less than 3km/h | OK | | | Celiwe Sokhela - 491462 | Train |
| 10354 | R | Read Defined Variable [TT] (BCU1)LI_NOT_INHIB = 0.0 | OK | 0 | | Celiwe Sokhela - 491462 | Train |
| 10355 | R | Read Defined Variable [TT] (BCU2)LI_NOT_INHIB = 0.0 | OK | 0 | | Celiwe Sokhela - 491462 | Train |
| 10356 | R | Read Defined Variable [TT] (TBCU1)LI_NOT_INHIB = 0.0 | OK | 0 | | Celiwe Sokhela - 491462 | Train |
| 10357 | R | Read Defined Variable [TT] (TBCU2)LI_NOT_INHIB = 0.0 | OK | 0 | | Celiwe Sokhela - 491462 | Train |
| 10358 | R | Read Defined Variable [TT] (TBCU3)LI_NOT_INHIB = 0.0 | OK | 0 | | Celiwe Sokhela - 491462 | Train |
| 10359 | R | Read Defined Variable [TT] (TBCU4)LI_NOT_INHIB = 0.0 | OK | 0 | | Celiwe Sokhela - 491462 | Train |
| 10360 | A | Put the Master controller in OFF position | OK | | | Celiwe Sokhela - 491462 | Train |
| 10361 | R | Observe that the train continues to brake until it comes to a complete stop | OK | | | Celiwe Sokhela - 491462 | Train |
| 10362 | R | Read Min [TT] (BCU1)AO_SERV_BRAKE : 1.2<= x | OK | 7.5 | | Celiwe Sokhela - 491462 | Train |
| 10363 | R | Read Min [TT] (BCU2)AO_SERV_BRAKE : 1.2<= x | OK | 7.5 | | Celiwe Sokhela - 491462 | Train |
| 10364 | R | Read Min [TT] (TBCU1)AO_SERV_BRAKE : 1.2<= x | OK | 7.5 | | Celiwe Sokhela - 491462 | Train |
| 10365 | R | Read Min [TT] (TBCU2)AO_SERV_BRAKE : 1.2<= x | OK | 7.5 | | Celiwe Sokhela - 491462 | Train |
| 10366 | R | Read Min [TT] (TBCU3)AO_SERV_BRAKE : 1.2<= x | OK | 7.5 | | Celiwe Sokhela - 491462 | Train |

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| 10367 | R | Read Min [TT] (TBCU4)AO_SERV_BRAKE : 1.2<= x | | OK | 7.5 | Celiwe Sokhela - 491462 | Train |
| 10368 | A | Put the ERTMS switch 62S1 in ISOLATION position in both TC cars | | OK | | Celiwe Sokhela - 491462 | Train |
| 10369 | I | Brake Distances Results | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10370 | A | Zip All the recorded CSV files of Braking distances into one folder and upload on teams "shifts reports" channel under a specific train folder. Rename the folder as: TSXX_Braking_Distances | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10371 | I | Train Acceleration Results | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10372 | A | Use the following spreadsheet to calculate the acceleration | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10373 | A | |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10374 | A | On the recorded dashboard, check how long it takes to reach 55km/h from Rec_speed>0 using Trace CSV software. Delta T (s) Delta V (km/h) | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10375 | R | TC1 Acceleration Result Min : 0.85<= x (m/s ²) | | OK | 0.913 | Paseka Ditlhakanyane - 491468 | Train |
| 10376 | R | TC2 Acceleration Result Min : 0.85<= x (m/s ²) | | OK | 0.912 | Paseka Ditlhakanyane - 491468 | Train |
| 10377 | I | 25km/h Speed limit in Reverse Direction | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10378 | A | Active Cab in TC1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10379 | A | Select Driving Mode to EFFORT position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10380 | A | Put the direction selector switch in REVERSE position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10381 | A | Put the Master controller in 100% Traction position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10382 | R | The maximum train speed reached is 25km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10383 | A | Put the Master controller in OFF position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10384 | R | The train comes to a complete stop | | OK | | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|---|--|----|--|-------------------------------|-------|
| 10385 | A | Put the direction selector switch in NEUTRAL position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10386 | A | Remove active cab in TC1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10387 | I | 25km/h Speed limit in Reverse Direction | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10388 | A | Active Cab in TC2 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10389 | A | Select Driving Mode to EFFORT position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10390 | A | Put the direction selector switch in REVERSE position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10391 | A | Put the Master controller in 100% Traction position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10392 | R | The maximum train speed reached is 25km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10393 | A | Put the Master controller in OFF position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10394 | R | The train comes to a complete stop | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10395 | A | Put the direction selector switch in NEUTRAL position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10396 | I | DEPOT mode speed limit TC1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10397 | A | Put the driving mode switch in DEPOT position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10398 | A | Put the direction selector switch in FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10399 | A | Put the Master controller in 100% Traction position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10400 | R | The maximum train speed reached is 15km/h | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10401 | A | Put the Master controller in OFF position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10402 | R | The train comes to a complete stop | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10403 | A | Put the direction selector switch in NEUTRAL position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10404 | I | DEPOT mode speed limit TC2 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10405 | A | Active cab on TC2 | | OK | | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|--|----|-------------------------------|-------|
| 10406 | A | Put the driving mode switch in DEPOT position | OK | Paseka Ditlhakanyane - 491468 | Train |
| 10407 | A | Put the direction selector switch in FORWARD position | OK | Paseka Ditlhakanyane - 491468 | Train |
| 10408 | A | Put the Master controller in 100% Traction position | OK | Paseka Ditlhakanyane - 491468 | Train |
| 10409 | R | The maximum train speed reached is 15km/h | OK | Paseka Ditlhakanyane - 491468 | Train |
| 10410 | A | Put the Master controller in OFF position | OK | Paseka Ditlhakanyane - 491468 | Train |
| 10411 | R | The train comes to a complete stop | OK | Paseka Ditlhakanyane - 491468 | Train |
| 10412 | A | Put the direction selector switch in NEUTRAL position | OK | Paseka Ditlhakanyane - 491468 | Train |
| 10413 | A | Remove active cab on TC2 | OK | Paseka Ditlhakanyane - 491468 | Train |
| 10414 | I | Doors | OK | Celiwe Sokhela - 491462 | Train |
| 10415 | I | Test 04 - PEA activation and override within timeout [PRASA-40-Val-2] | OK | Celiwe Sokhela - 491462 | Train |
| 10416 | A | Put the Master controller in TRACTION position and accelerate the train up to 10km/h | OK | Celiwe Sokhela - 491462 | Train |
| 10417 | A | Press Left and Right Door Authorization Buttons (50S6 and 50S5) | OK | Celiwe Sokhela - 491462 | Train |
| 10418 | R | When train is running above 5km/h it is not possible to get Door Authorization. | OK | Celiwe Sokhela - 491462 | Train |
| 10419 | A | Pull any PEA on the train | OK | Celiwe Sokhela - 491462 | Train |
| 10420 | A | Before 10s elapses with PEA pulled, press the button 44S5 to override the PEA | OK | Celiwe Sokhela - 491462 | Train |
| 10421 | R | TA lamp is ON | OK | Celiwe Sokhela - 491462 | Train |
| 10422 | A | Apply brake until the complete stop of the Train. | OK | Celiwe Sokhela - 491462 | Train |
| 10423 | A | Reset PEA using the switch 44S6 | OK | Celiwe Sokhela - 491462 | Train |
| 10424 | I | Test 06 - PEA activation with timeout respected [PRASA-40-Val-1] | OK | Celiwe Sokhela - 491462 | Train |
| 10425 | A | Put the Master controller in TRACTION position and accelerate the train up to | OK | Celiwe Sokhela - 491462 | Train |

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| | | 10km/h | | | | |
| 10426 | A | Pull another PEA on the train | | OK | | Celiwe Sokhela - 491462 Train |
| 10427 | R | After 10s with PEA pulled, Emergency Brakes should be applied. | | OK | | Celiwe Sokhela - 491462 Train |
| 10428 | A | Put the Master controller in OFF position | | OK | | Celiwe Sokhela - 491462 Train |
| 10429 | A | Press the button 54S3 twice to acknowledge the PEA | | OK | | Celiwe Sokhela - 491462 Train |
| 10430 | A | Reset PEA using the switch 44S6 | | OK | | Celiwe Sokhela - 491462 Train |
| 10431 | A | Release Emergency Brakes | | OK | | Celiwe Sokhela - 491462 Train |
| 10432 | I | Test 05 - PEA activation with Train speed lower than 5 km/h [PRASA-40-Val-4] | | OK | | Celiwe Sokhela - 491462 Train |
| 10433 | A | Put the Master controller in TRACTION position, pull any PEA on the train before the train speed reaches 5km/h | | OK | | Celiwe Sokhela - 491462 Train |
| 10434 | R | An alarm appears on DDU screen warning that a PEA was pulled | | OK | | Celiwe Sokhela - 491462 Train |
| 10435 | R | TA lamp turns OFF | | OK | | Celiwe Sokhela - 491462 Train |
| 10436 | R | Emergency Brake is applied | | OK | | Celiwe Sokhela - 491462 Train |
| 10437 | A | Press the button 54S3 twice to acknowledge the PEA | | OK | | Celiwe Sokhela - 491462 Train |
| 10438 | A | Reset the PEA using switch 44S6 | | OK | | Celiwe Sokhela - 491462 Train |
| 10439 | A | Open and close the doors on the side where the PEA was pulled | | OK | | Celiwe Sokhela - 491462 Train |
| 10440 | R | All doors are closed on DDU screen | | OK | | Celiwe Sokhela - 491462 Train |
| 10441 | A | Put the Master controller in OFF position | | OK | | Celiwe Sokhela - 491462 Train |
| 10442 | A | Reset Emergency Brakes | | OK | | Celiwe Sokhela - 491462 Train |
| 10443 | I | Test 07 - PEA activation with reset PEA switch permanently active [PRASA-40-Val-3] | | OK | | Celiwe Sokhela - 491462 Train |
| 10444 | A | Force [TT] (MPU1)lo_ubk_tc1resetpea = 1.0 | | OK | | Celiwe Sokhela - 491462 Train |
| 10445 | A | Accelerate the train up to 10 km/h. | | OK | | Celiwe Sokhela - 491462 Train |

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| 10446 | A | Pull any in TC1 car, but not till its final position | | OK | | Celiwe Sokhela - 491462 | Train |
| 10447 | I | The lamp 44H1 (Emergency Brake Interlock Open) turns ON. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10448 | R | Read Defined Variable [TT] (MPU1)li_ubk_tc1pealooop = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10449 | R | Read Defined Variable [TT] (MPU1)li_dor_tc1alldoorsclosedr1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10450 | R | Read Defined Variable [TT] (MPU1)li_dor_tc1alldoorsclosedr2 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10451 | R | An alarm appears on DDU screen warning that a PEA was pulled. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10452 | I | The lamp 31H1 (Traction Authorized) turns OFF. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10453 | R | Traction effort bar graph is indicating no effort on the line voltage module | | OK | | Celiwe Sokhela - 491462 | Train |
| 10454 | R | Read Defined Variable [TT] (MPU1)lo_drc_tc1tractionloopr2 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10455 | R | Read Defined Variable [TT] (MPU1)lo_drc_tc1tractionloopr1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10456 | A | After 10 seconds that PEA has been pulled check that: | | OK | | Celiwe Sokhela - 491462 | Train |
| 10457 | R | Read Defined Variable [TT] UBK_EmgcyBrkApld = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10458 | I | The lamp 44H4 (Emergency Brake Loop) turns ON. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10459 | R | Read Defined Variable [TT] (MPU1)bcu1_tlnsb = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10460 | A | Release [TT] (MPU1)lo_ubk_tc1resetpea | | OK | | Celiwe Sokhela - 491462 | Train |
| 10461 | R | The lamp 51H1 turns OFF (door closed and locked). | | OK | | Celiwe Sokhela - 491462 | Train |
| 10462 | A | Set Passenger Emergency Alarm Reset Switch (44S6) to "Reset" position. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10463 | R | PEA alarm signal is reset. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10464 | A | Move Master Controller Handle (30A1) to "OFF" position. | | OK | | Celiwe Sokhela - 491462 | Train |

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| 10465 | A | Reset the emergency brake setting the direction switch (S2.2) to "NEUTRAL" and then to "FORWARD" position again. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10466 | R | Read Defined Variable [TT] UBK_EmgcyBrkApld = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10467 | I | The lamp 44H4 (Emergency Brake Loop) turns OFF. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10468 | R | Read Defined Variable [TT] (MPU1)bcu1_tlnb = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10469 | I | The lamp 31H1 (Traction Authorized) turns ON. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10470 | R | Read Defined Variable [TT] (MPU1)lo_drc_tc1tractionloopr1 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10471 | R | Read Defined Variable [TT] (MPU1)lo_drc_tc1tractionloopr2 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10472 | I | Test 08 - Safety Requirement [PRASA-34A-a] | | OK | | Celiwe Sokhela - 491462 | Train |
| 10473 | I | On the beginning the Train shall be stationary. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10474 | A | Force [TT] (MPU1)lo_ets_tc2rstotdrr1 = 1.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10475 | A | Force [TT] (MPU1)lo_ets_tc2rstotdrr2 = 1.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10476 | R | Check on DDU that the On-board Train Data Recorder is offline | | OK | | Celiwe Sokhela - 491462 | Train |
| 10477 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10478 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive2 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10479 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10480 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive2 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10481 | R | Read Defined Variable [TT] (BCU2)LO_SPEED_THRSLD1 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10482 | A | Accelerate the Train up to 4km/h. | | OK | | Celiwe Sokhela - 491462 | Train |

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| 10483 | R | Read Defined Variable [TT] (BCU2)LO_SPEED_THRSLD1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10484 | A | Accelerate the Train up to 10km/h. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10485 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10486 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive2 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10487 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10488 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive2 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10489 | R | Read Defined Variable [TT] (BCU2)LO_SPEED_THRSLD1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10490 | R | Read Defined Variable [TT] (MPU1)REC_Speed5ThresholdFail = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10491 | A | Apply brake until the complete stop of the Train. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10492 | R | Read Defined Variable [TT] (BCU2)LO_SPEED_THRSLD1 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10493 | R | The OTDR is maintained OFF. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10494 | A | Release [TT] (MPU1)lo_ets_tc2rstotdr1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10495 | R | The OTDR is turned ON. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10496 | I | Test 09 - Safety Requirement [PRASA-23-Val-2] | | OK | | Celiwe Sokhela - 491462 | Train |
| 10497 | I | On the beginning the Train shall be stationary. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10498 | A | Force [TT] (BCU2)LO_SPEED_THRSLD1 = 0.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10499 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_HwIOStatus | | OK | 136756 | Celiwe Sokhela - 491462 | Train |
| 10500 | I | TrainTracer gives a numerical information through the variable "DCU1_TC1_HwIOStatus". In order to check the state of the bits 2 and 8, with the help of a programable calculator (use the computer's one), change the numerical information to a word information and read the state of these |  | OK | | Celiwe Sokhela - 491462 | Train |

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|-------|---|--|--|----|--------|-------------------------|-------|
| | | bits. | | | | | |
| 10501 | R | DCU1_TC1_HwIOStatus.bit2 = 1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10502 | R | DCU1_TC1_HwIOStatus.bit8 = 0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10503 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10504 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive2 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10505 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive1 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10506 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive2 = 0.0 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10507 | A | Accelerate the Train up to 10km/h and check the variable "DCU1_TC1_HwIOStatus" as soon as the speed overpasses 5km/h (according to DDU's speed value). | | OK | | Celiwe Sokhela - 491462 | Train |
| 10508 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_HwIOStatus | | OK | 136756 | Celiwe Sokhela - 491462 | Train |
| 10509 | R | DCU1_TC1_HwIOStatus.bit2 = 0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10510 | R | DCU1_TC1_HwIOStatus.bit8 = 1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10511 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive1 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10512 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive2 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10513 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive1 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10514 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive2 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10515 | I | Test 10 - Safety Requirement [PRASA-23-Val-1] | | OK | | Celiwe Sokhela - 491462 | Train |
| 10516 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_HwIOStatus | | OK | 137008 | Celiwe Sokhela - 491462 | Train |
| 10517 | R | DCU1_TC1_HwIOStatus.bit2 = 1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10518 | R | DCU1_TC1_HwIOStatus.bit8 = 0 | | OK | | Celiwe Sokhela - 491462 | Train |

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|-------|---|---|--|----|--------|----------------------------|-------|
| 10519 | A | Release [TT] (BCU2)LO_SPEED_THRSLD1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10520 | I | Test 11 - Safety Requirement [PRASA-23-Val-4] | | OK | | Celiwe Sokhela - 491462 | Train |
| 10521 | I | In case it is not possible to go further at the same direction, change cab and perform the tests with the opposite cab active. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10522 | A | Force [TT] (BCU1)LO_SPEED_THRSLD1 = 1.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10523 | A | Force [TT] (BCU2)LO_SPEED_THRSLD1 = 1.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10524 | R | Relay 61k3 permanently supplied in all cars. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10525 | R | DCU1_TC1_HwIOStatus.bit2 = 1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10526 | R | DCU1_TC1_HwIOStatus.bit8 = 0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10527 | I | TrainTracer gives a numerical information through the variable "DCU1_TC1_DiagData1". In order to check the state of the bits 22 and 23, with the help of a programable calculator (use the computer's one), change the numerical information to a Dword information and read the state of these bits. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10528 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_DiagData1 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10529 | R | DCU1_TC1_DiagData1.bit22 = 0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10530 | R | DCU1_TC1_DiagData1.bit23 = 0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10531 | A | Accelerate the Train up to 10km/h and check the status of the variables "DCU1_TC1_HwIOStatus" and "DCU1_TC1_DiagData1" when the speed overpasses 5km/h (according to DDU's speed value). | | OK | | Celiwe Sokhela - 491462 | Train |
| 10532 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_HwIOStatus | | OK | 136756 | Celiwe Sokhela - 491462 | Train |
| 10533 | R | DCU1_TC1_HwIOStatus.bit2 = 1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10534 | R | DCU1_TC1_HwIOStatus.bit8 = 1 | | OK | | Celiwe Sokhela - 491462 | Train |

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|-------|---|--|---|----|--------|----------------------------|-------|
| 10535 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_DiagData1 | | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10536 | R | DCU1_TC1_DiagData1.bit22 = 1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10537 | R | DCU1_TC1_DiagData1.bit23 = 0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10538 | A | Force [TT] (MPU1)OTDR_5kphSpeedFlt = 1.0 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10539 | R | Check on DDU screen the appearance of an IOS (838) requiring a reparation at the end of the day. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10540 | A | Release [TT] (MPU1)OTDR_5kphSpeedFlt | | OK | | Celiwe Sokhela - 491462 | Train |
| 10541 | A | Release [TT] (BCU1)LO_SPEED_THRSLD1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10542 | A | Release [TT] (BCU2)LO_SPEED_THRSLD1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10543 | A | Brake the train until its complete stop. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10544 | I | Test 12 - Safety Requirement [PRASA-23- Val-5] | | OK | | Celiwe Sokhela - 491462 | Train |
| 10545 | A | For the following test use OTDR web portal to force the speed of above 5km/h | ✘ | OK | | Celiwe Sokhela - 491462 | Train |
| 10546 | R | Relays 61k1 permanently supplied in all cars plus relays 61k2 in TC1 and TC2 cars. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10547 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_HwIOStatus | | OK | 136756 | Celiwe Sokhela - 491462 | Train |
| 10548 | R | DCU1_TC1_HwIOStatus.bit2 = 1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10549 | R | DCU1_TC1_HwIOStatus.bit8 = 1 | | OK | | Celiwe Sokhela - 491462 | Train |
| 10550 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive1 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10551 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive1 = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10552 | R | Check on DDU screen the appearance of an IOS (839) requiring a reparation at the end of the day. | | OK | | Celiwe Sokhela - 491462 | Train |
| 10553 | R | Read Defined Variable [TT] (MPU1)DOR_FDcuSpeedThr = 1.0 | | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10554 | A | Accelerate the Train up to 10km/h. | | OK | | Celiwe Sokhela - 491462 | Train |

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|-------|---|---|----|--------|----------------------------|-------|
| 10555 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_HwIOStatus | OK | 136756 | Celiwe Sokhela - 491462 | Train |
| 10556 | R | DCU1_TC1_HwIOStatus.bit2 = 0 | OK | | Celiwe Sokhela - 491462 | Train |
| 10557 | R | DCU1_TC1_HwIOStatus.bit8 = 1 | OK | | Celiwe Sokhela - 491462 | Train |
| 10558 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_DiagData1 | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10559 | R | DCU1_TC1_DiagData1.bit22 = 0 | OK | | Celiwe Sokhela - 491462 | Train |
| 10560 | R | DCU1_TC1_DiagData1.bit23 = 0 | OK | | Celiwe Sokhela - 491462 | Train |
| 10561 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive1 = 1.0 | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10562 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive1 = 1.0 | OK | 1 | Celiwe Sokhela - 491462 | Train |
| 10563 | A | Decelerate the Train until comes to a complete stop and check the status of the variables "DCU1_TC1_HwIOStatus" and "DCU1_TC1_DiagData1" as soon as the speed is below 5km/h. | OK | | Celiwe Sokhela - 491462 | Train |
| 10564 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_HwIOStatus | OK | 136756 | Celiwe Sokhela - 491462 | Train |
| 10565 | R | DCU1_TC1_HwIOStatus.bit2 = 0, if 5km/h > train speed > 3km/h. | OK | | Celiwe Sokhela - 491462 | Train |
| 10566 | R | DCU1_TC1_HwIOStatus.bit2 = 1, if train speed < 3km/h. | OK | | Celiwe Sokhela - 491462 | Train |
| 10567 | R | DCU1_TC1_HwIOStatus.bit8 = 1 | OK | | Celiwe Sokhela - 491462 | Train |
| 10568 | R | Read Undefined Variable [TT] (MPU1)DCU1_TC1_DiagData1 | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10569 | R | DCU<i><car>_DiagData1.bit22 = 0 | OK | | Celiwe Sokhela - 491462 | Train |
| 10570 | R | DCU<i><car>_DiagData1.bit23 = 1 | OK | | Celiwe Sokhela - 491462 | Train |
| 10571 | R | Read Defined Variable [TT] (MPU1)li_rec_tc1thresholdfive1 = 0.0 | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10572 | R | Read Defined Variable [TT] (MPU1)li_rec_tc2thresholdfive1 = 0.0 | OK | 0 | Celiwe Sokhela - 491462 | Train |
| 10573 | R | Read Defined Variable [TT] (MPU1)DOR_FDcuSpeedThr = 0.0 | OK | 0 | Celiwe Sokhela - 491462 | Train |

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|-------|---|--|---|----|--|-------------------------------|-------|
| 10574 | I | Rescue Mode and Emergency Disconnection | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10575 | I | BACKUP MODE | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10576 | A | Active cab in TC1 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10577 | A | Put the backup mode switch 27S1 in Backup position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10578 | A | Put the Driving Direction Switch to FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10579 | A | Hold pressed the "Master's Deadman Device (30A1.S4)" and move "Master Controller handle (30A1)" to initial "Traction" zone position. |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10580 | I | Low tractive effort demand is requested. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10581 | R | Although the low tractive effort demand has been requested, the Train moves with a standard tractive demand | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10582 | A | Move "Master Controller (30A1)" handle to extreme "Traction" zone position |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10583 | R | Verify that there wasn't an impact on train movement and the tractive demand was maintained | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10584 | A | Release the Master's Deadman Device (30A1.S4) for more than 5 seconds | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10585 | R | Train applies emergency brake | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10586 | I | The Deadman device must remain pressed to allow traction in backup mode, otherwise the emergency brake loop is opened when the timer relay expire. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10587 | A | Set the master controller to "OFF" position. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10588 | A | Set the Driving Direction Switch to NEUTRAL and then to FORWARD position again | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10589 | R | Emergency brake released on Train. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10590 | I | From now on, when operating the master controller don't forget to maintain anyone of the deadman devices pressed. | | OK | | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|--|---|----|--|-------------------------------|-------|
| 10591 | A | Move "Master Controller (30A1)" handle to "Traction" zone position. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10592 | R | Train starts to move. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10593 | A | Keeping the Master's handle within traction zone, check that the train is capable to reach 25km/h. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10594 | R | Verify that train reaches, but does not exceed the speed of 25km/h. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10595 | I | On Backup mode, train speed is limited to 25km/h. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10596 | A | Move "Master Controller (30A1)" handle to initial "Brake" zone position. |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10597 | I | Low brake effort demand is requested. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10598 | R | Verify that the train starts to brake with a standard brake effort. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10599 | A | Move "Master Controller (30A1)" handle to extreme "Brake" zone position (stop before achieving "Emergency Brake" position). |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10600 | I | High brake effort demand is requested. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10601 | R | Verify that there wasn't an impact on train movement, and the brake demand was maintained. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10602 | I | On Backup Mode, brake system considers a single brake demand and disregards master controller handle position within brake zone. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10603 | R | Train stops. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10604 | I | BACKUP MODE TC2 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10605 | A | Active cab in TC2 | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10606 | A | Press the automatic start button 20S1 to prepare the train in high voltage | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10607 | R | After few seconds, the train is prepared in high voltage with HSCBs closed | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10608 | A | Put the backup mode switch 27S1 in Backup position | | OK | | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|--|---|----|--|-------------------------------|-------|
| 10609 | A | Put the Driving Direction Switch to FORWARD position | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10610 | A | Hold pressed the "Master's Deadman Device (30A1.S4)" and move "Master Controller handle (30A1)" to initial "Traction" zone position. |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10611 | I | Low tractive effort demand is requested. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10612 | R | Although the low tractive effort demand has been requested, the Train moves with a standard tractive demand | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10613 | A | Move "Master Controller (30A1)" handle to extreme "Traction" zone position |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10614 | R | Verify that there wasn't an impact on train movement and the tractive demand was maintained | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10615 | A | Release the Master's Deadman Device (30A1.S4) for more than 5 seconds | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10616 | R | Train applies emergency brake | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10617 | I | The Deadman device must remain pressed to allow traction in backup mode, otherwise the emergency brake loop is opened when the timer relay expire. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10618 | A | Set the master controller to "OFF" position. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10619 | A | Set the Driving Direction Switch to NEUTRAL and then to FORWARD position again | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10620 | R | Emergency brake released on Train. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10621 | I | From now on, when operating the master controller don't forget to maintain anyone of the deadman devices pressed. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10622 | A | Move "Master Controller (30A1)" handle to "Traction" zone position. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10623 | R | Train starts to move. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10624 | A | Keeping the Master's handle within traction zone, check that the train is capable to reach 25km/h. | | OK | | Paseka Ditlhakanyane - 491468 | Train |

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|-------|---|--|---|----|--|-------------------------------|-------|
| 10625 | R | Verify that train reaches, but does not exceed the speed of 25km/h. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10626 | I | On Backup mode, train speed is limited to 25km/h. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10627 | A | Move "Master Controller (30A1)" handle to initial "Brake" zone position. |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10628 | I | Low brake effort demand is requested. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10629 | R | Verify that the train starts to brake with a standard brake effort. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10630 | A | Move "Master Controller (30A1)" handle to extreme "Brake" zone position (stop before achieving "Emergency Brake" position). |  | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10631 | I | High brake effort demand is requested. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10632 | R | Verify that there wasn't an impact on train movement, and the brake demand was maintained. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10633 | I | On Backup Mode, brake system considers a single brake demand and disregards master controller handle position within brake zone. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10634 | R | Train stops. | | OK | | Paseka Ditlhakanyane - 491468 | Train |
| 10635 | I | End of Test | | OK | | Paseka Ditlhakanyane - 491468 | Train |



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| Serial Tests Report TS248 – TFD RTR Train Functional Static Test Report | Document Reference GIB0000007276 Version: A0 | Emission date 27/09/2024 |
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Serial Tests Report
TS248 – TFD
RTR Train Functional Static Test Report

Document Reference
GIB0000007276
Version: A0

Emission date
27/09/2024

Section 2 – Report summaries

2.1 Results status

| Test Instruction Sheet | Compliant | Incomplete | Non-compliant |
|------------------------|-----------|------------|---------------|
| Dynamic | X | | |

2.2 Tools used

| Function | Tool name | Tool number |
|----------|-----------|-------------|
| | | |

| Vehicle | Equipment | Expected version | Version loaded |
|---------|-----------|------------------|----------------|
| Train | | | |