

| PROJECT | CUSTOMER | VEHICLE |
|-----------------|----------|-----------------|
| Xtrapolis-PRASA | PRASA | 244 – TC2 – VPT |

RTR Vehicle Pre-Testing TS244 TC2 Report
GIB0000007106



| | CREATED | VERIFIED | APPROVED | DISTRIBUTION |
|------------------|-----------------------|----------------|-----------------|---|
| Name | Tshegofatso SETSHOGWE | 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"/> |
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Table of modifications

| Rev | Date | Modifications Content | Writer |
|-----|------------|-----------------------|-----------------------|
| A0 | 10/09/2024 | Creation | Tshegofatso SETSHOGWE |

Internal validations

| | Name | Function | Date | Signature |
|-----------------|-----------------------|---------------------|------------|--|
| Creator | Tshegofatso SETSHOGWE | EPU Manager | 10/09/2024 | X  Tshegofatso SETSHOGWE EPU Manager |
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Execution Plan

| | |
|-------------------|------------|
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Section 1 – Purpose / Objectives

1. Protective Bonding

The objective of this procedure is to verify the return path of the current to the ground.

2. Reflectometry

The objective of this procedure is to verify the integrity of the ethernet cables.

3. Config

The objective of this procedure is to set up car ID for specific systems such as fire, OTDR and more



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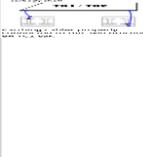
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Section 2 – Protective Bonding

2.1 Instructions list

2.1.1 012-Protective Bonding and Return Current

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

| N° | Type | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|---|---|---------------|--------------|---------------------------|---------|
| 10001 | I | Return Circuit: car body to Ground. | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10002 | I | The purpose of this test is to confirm that the car body of each car in the train is connected to ground via the earthing brush which will ensure that current from the overhead wire is returned to the substation without damage to equipment or risk of electric shock | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10003 | A | The Ohmmeter shall be off | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10004 | A | Use the Tool List to record the serial number of the Ohmmeter that will be used for this test | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10005 | A | Ensure that the current setpoint is 50A and voltage <50V (applicable for all impedance measurement) on the Ohmmeter device to be used for the test. | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10006 | I | For all impedance measurements of the car body to ground the positive terminal shall be connected to the car body and the negative terminal to the rail. | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10007 | I | For all other impedance measurements, the positive terminal shall be connected to the tested subject and the negative terminal to the car body shell. | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10008 | A | Visually identify and inspect that the earthing cables of the 1st axle of 1st bogie frame and the 2nd axle of 2nd bogie frame are properly connected to the axle brushes. |  | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10009 | A | Disconnect from the axle box the earthing cable of the 2nd axle of 2nd bogie frame | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10010 | R | Only the earthing cable of the 1st axle of the 1st bogie frame is connected | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10011 | A | Measure the car body to ground impedance | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10012 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00254 | Siphehile Mchunu - 491465 | TC2 |

| | | | | | | | |
|-------|---|---|--|----|---------|---------------------------|-----|
| 10013 | A | Disconnect the earthing cable of 1st axle of 1st bogie frame | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10014 | A | Connect the earthing cable of the 2nd axle of 2nd bogie frame | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10015 | R | Only the earthing cable of the 2nd axle of the 2nd bogie frame of TC2 car is connected | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10016 | A | Measure the car body to ground impedance | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10017 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00145 | Siphehile Mchunu - 491465 | TC2 |
| 10018 | A | Connect the earthing cable of the 1st axle of 1st bogie frame | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10019 | I | Earthing of Equipment on the Underframe | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10020 | A | Visually inspect that the earthing cable connecting the Auxiliary Converter Case to TC2 car body is properly connected and related bolts are correctly torqued. | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10021 | R | Auxiliary Converter visually grounded and torque is correctly marked | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10022 | A | Measure the impedance between the Auxiliary Converter Case and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10023 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00149 | Siphehile Mchunu - 491465 | TC2 |
| 10024 | A | Visually inspect that the earthing cable connecting the Battery Box to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10025 | R | Battery Box visually grounded and torque is correctly marked | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10026 | A | Measure the impedance between the Battery Box Case and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10027 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00169 | Siphehile Mchunu - 491465 | TC2 |
| 10028 | A | Visually inspect that the earthing cable connecting the Eurobalise Antenna to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10029 | R | Eurobalise Antenna visually grounded and torque is correctly marked | | OK | | Siphehile Mchunu - 491465 | TC2 |

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|-------|---|--|--|----|---------|----------------------------|-----|
| 10030 | A | Measure the impedance between the Eurobalise Antenna and the car body | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10031 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00253 | Siphesihle Mchunu - 491465 | TC2 |
| 10032 | A | Visually inspect that the earthing cable connecting the LVB/Brake Module to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10033 | R | LVB/Brake Module visually grounded and torque is correctly marked | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10034 | A | Measure the impedance between the LVB/Brake and the car body | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10035 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00191 | Siphesihle Mchunu - 491465 | TC2 |
| 10036 | I | Earthing of Equipment on the Exterior | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10037 | I | Exterior Front | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10038 | A | Visually inspect that the earthing cable connecting the Front Coupler to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10039 | R | Front Coupler visually grounded and torque is correctly marked | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10040 | A | Measure the impedance between the Front Coupler and the car body | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10041 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00244 | Siphesihle Mchunu - 491465 | TC2 |
| 10042 | I | Earthing of Equipment on the Roof | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10043 | A | Visually inspect that the earthing cable connecting the Saloon HVAC to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10044 | R | Saloon HVAC visually grounded and torque is correctly marked | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10045 | A | Measure the impedance between the Saloon HVAC and the car body | | OK | | Siphesihle Mchunu - 491465 | TC2 |
| 10046 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.0015 | Siphesihle Mchunu - 491465 | TC2 |
| 10047 | A | Visually inspect that the earthing cable connecting the Cab HVAC to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphesihle Mchunu - 491465 | TC2 |

| | | | | | | | |
|-------|---|---|--|----|---------|---------------------------|-----|
| 10048 | R | Cab HVAC visually grounded and torque is correctly marked | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10049 | A | Measure the impedance between the Cab HVAC and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10050 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.0034 | Siphehile Mchunu - 491465 | TC2 |
| 10051 | I | Earthing of interior equipment | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10052 | I | Cabin | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10053 | A | Visually inspect that the earthing cable connecting LV1 cubicle to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10054 | R | LV1 visually grounded and torque is correctly marked | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10055 | A | Measure the impedance between the LV1 cubicle and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10056 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00127 | Siphehile Mchunu - 491465 | TC2 |
| 10057 | A | Visually inspect that the earthing cable connecting LV2 cubicle to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10058 | R | LV2 visually grounded and torque is correctly marked | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10059 | A | Measure the impedance between the LV2 cubicle and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10060 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00175 | Siphehile Mchunu - 491465 | TC2 |
| 10061 | A | Visually inspect that the earthing cable connecting Under Desk Left cubicle to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10062 | R | Under Desk Left cabinet visually grounded and torque is correctly marked | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10063 | A | Measure the impedance between the Under Desk Left cabinet and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10064 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.0156 | Siphehile Mchunu - 491465 | TC2 |
| 10065 | A | Visually inspect that the earthing cable connecting Under Desk Middle cabinet to the car body is properly connected and the | | OK | | Siphehile Mchunu - 491465 | TC2 |

| | | | | | | | |
|-------|---|---|--|----|---------|---------------------------|-----|
| | | related bolts are correctly torqued | | | | | |
| 10066 | R | Under Desk Middle cabinet visually grounded and torque is correctly marked | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10067 | A | Measure the impedance between the Under Desk Middle cabinet and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10068 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.0145 | Siphehile Mchunu - 491465 | TC2 |
| 10069 | A | Measure the impedance between the Master Controller and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10070 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.0047 | Siphehile Mchunu - 491465 | TC2 |
| 10071 | A | Measure the impedance between the Foot Heater and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10072 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00297 | Siphehile Mchunu - 491465 | TC2 |
| 10073 | I | Saloon | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10074 | A | Visually inspect that the earthing cable connecting LV7 cubicle to the car body is properly connected and the related bolts are correctly torqued | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10075 | R | LV7 visually grounded and torque is correctly marked | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10076 | A | Measure the impedance between the LV7 cubicle and the car body | | OK | | Siphehile Mchunu - 491465 | TC2 |
| 10077 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00313 | Siphehile Mchunu - 491465 | TC2 |



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Section 3 – Reflectometry

3.1 Instructions list

3.1.1 025_NET_054_PIS-Network Cabling Integrity Test

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

| N° | Type | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|---|---|---------------|--------------|-----------------------|---------|
| 10001 | I | Network Cabling Integrity Test | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10002 | I | It is necessary to check the network cables to ensure that they have been installed correctly to improve the overall operation of the system. | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10003 | I | The Cable Analyzer Module DSX-5000 will be used to validate cabling | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10004 | I | Register as a new Operator on the DSX-5000. Check on the manual below on how to register as a new Operator. |  | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10005 | I | When saving the tests results for each line, it should be named by its trainset number (X) and the test code (Indicated in the test step). i.e. TS021_TC2_P01 for PACIS and TS021_TC2_T01 for TCMS. | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10006 | I | Use the pictures below for coupler test. | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10007 | I | Front coupler |  | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10008 | I | DB9 connector |  | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10009 | I | TCMS cabling | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10010 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH7)] to: [54A13 Train Router Switch (Local: +LV1; Connector: 54XP13_ETHCPU)] NOTE: Cable is crossed TSX_TC2_T01 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10011 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH4)] to: [25A11 Ethernet Switch (CRS2) (Local: | | OK | | Sinazo Mkhwa - 529940 | TC2 |

| | | | | | | | |
|-------|---|--|--|----|--|-----------------------|-----|
| | | +LV1; Connector: 25XP11_X4]) NOTE: Cable is crossed TSX_TC2_T02 | | | | | |
| 10012 | A | From: [25A11 Ethernet Switch (Local: +LV1; Connector: 25XP11_X3)] to: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X4)] NOTE: Cable is crossed TSX_TC2_T03 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10013 | A | From: [25A12 Ethernet Switch (CRS2) (Local: +LV1; Connector: 25XP12_X8)] to: [25A18 MAINTENANCE INTERFACE (Local: +LV1; Connector: 25XR18_ETH)] NOTE: Cable is crossed TSX_TC2_T04 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10014 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH3)] to: [25A14 Ethernet Repeater (TBR) (Local: +LV7; Connector: 25XP14_ETH0)] NOTE: Cable is crossed TSX_TC2_T05 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10015 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH5)] to: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X3)] NOTE: Cable is crossed TSX_TC2_T06 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10016 | A | From: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X3)] to: [(Local: END2 ; Connector: 90XP12.all)] NOTE: Cable is crossed TSX_TC2_T07 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10017 | A | From: [25A14 TBR (Local: +LV7; Connector: 25XP14_ETH1)] to: [Inter-car (Local: +END2; -90XP12.al)] NOTE: Cable is straight TSX_TC2_T08 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10018 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH1)] to: [Inter-car (Local: +END2; -90XP11.all)] NOTE: Cable is straight | | OK | | Sinazo Mkhwa - 529940 | TC2 |

| | | TSX_TC2_T09 | | | | | |
|-------|---|--|--|----|--|-----------------------|-----|
| 10019 | A | From: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X4)] to: [Inter-car (Local: +END2; -90XP11.al)] NOTE: Cable is straight TSX_TC2_T10 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10020 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH0)] to: [Coupler 041 (Local: CLP; Connector: 90XR120_LC14)] TSX_TC2_T11 NOTE: Cable is crossed NOTE: For this test, use the male coupler connector provided. Please refer to the picture for the correct location of connector. | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10021 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH2)] to: [Coupler 141 (Local: +CLP; Connector: 90XR120_RC14)] TSX_TC2_T12 NOTE: Cable is Straight NOTE: For this test use the female coupler connector provided. Please refer to the above picture for correct location for the connector. | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10022 | I | Pacis cabling | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10023 | A | From: [TRS 54A13 (Local: +LV1; Connector: 54XP13_ETH7)] to: [Inter-car (Local: +END2; -90XP12.el)] NOTE: Cable is straight TSX_TC2_P01 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10024 | A | From: [54A10 CRS1 (Local: +LV7; Connector: 54XP10_X7)] to: [Inter-car (Local: +END2; -90XP11.el)] NOTE: Cable is crossed TSX_TC2_P02 | | OK | | Sinazo Mkhwa - 529940 | TC2 |
| 10025 | A | From: [54A13 TRS (Local: +LV1; Connector: 54XP13_ETH6)] to: [54A10 CRS1 (Local: +LV7; Connector: 54XP10_X8)] NOTE: Cable is crossed TSX_TC2_P03 | | OK | | Sinazo Mkhwa - 529940 | TC2 |

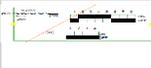
| | | | | | |
|-------|---|---|----|----------------------------|-----|
| 10026 | A | <p>From: [54A42 RACK UMC (EBM) (Local: +LV1; Connector: 54XP42_X2) to: [Coupler 042 (Local: +CLP; Connector: 90XR120_LE12)] TSX_TC2_P04</p> <p>NOTE: Cable is crossed NOTE: For this test use the female coupler connector and the DB9 connector provided. Refer to the picture above for the correct location of the connector.</p> | OK | Sinazo Mkhwa - 529940 | TC2 |
| 10027 | A | <p>From: [54A42 RACK UMC (EBM) (Local: +LV1; Connector: 54XP42_X8) to: [Coupler 142 (Local: +CLP; Connector: 90XR120_RE12)] TSX_TC2_P05</p> <p>NOTE: Cable is straight NOTE: For this test use the female coupler connector and the DB9 connector provided. Refer to the picture above for the correct location of the connector.</p> | OK | Sinazo Mkhwa - 529940 | TC2 |
| 10028 | A | All cables have been validated on TC2 | OK | Sinazo Mkhwa - 529940 | TC2 |
| 10029 | R | Download all the results from Fluke and save them on PC with folder name "TC2_TSxx" | OK | Ntobeko Ndlovu - 421595 | TC2 |

Section 4 – Config

4.1 Instructions list

4.1.1 CONF-Car Configuration

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

| N° | Type | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|--|---|---------------|--------------|-----------------------|---------|
| 10001 | I | Configuration Checks | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10002 | A | Check continuity between 93XT104_1 pin 50 and Ground point | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10003 | R | There is no continuity | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10004 | I | If there is continuity above, the wire 19203LE is pinched on the compressor isolation cock. | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10005 | A | Check continuity on all pins of connector 90XP15 & 90XP14 to ground | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10006 | R | There is no continuity except pin 62 of connector 90XP15 | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10007 | A | Check continuity on all pins of the coupler to ground. | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10008 | R | There is no continuity | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10009 | I | Smoke Detector Address Configuration | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10010 | A | Remove and configure the Smoke Detector 67A4 in the cabin, according to the figure attached. |  | OK | | Amanda Ntuli - 526239 | TC2 |
| 10011 | A | Reconnect Smoke Detector 67A4 | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10012 | A | Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure attached. |  | OK | | Amanda Ntuli - 526239 | TC2 |
| 10013 | A | Reconnect Smoke Detector 67A2 | | OK | | Amanda Ntuli - 526239 | TC2 |

| | | | | | | | |
|-------|---|---|---|----|-------|-----------------------|-----|
| 10014 | A | Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure attached. |  | OK | | Amanda Ntuli - 526239 | TC2 |
| 10015 | R | Measure the resistance (LHD- Line Heat Detection from Static Converter Box) between point 1 and point 4 of the connector 67XP3_11. Result Min/Max : 550<= x<= 700 (Ohms) | | OK | 606.2 | Amanda Ntuli - 526239 | TC2 |
| 10016 | A | Reconnect Smoke Detector 67A3 | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10017 | I | OTDR LOOP | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10018 | I | Check continuity between the following points: | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10019 | A | From: [61A1 Tach Board (local: +LV2 connector -61XP1_D2_TAC (pin c26))] to: [61A2 speed indicator IN+(local: DD4)]. | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10020 | A | From: [61A1 Tach Board (local: +LV2 connector -61XP1_D2_TAC (pin e26))] to: [61A2 speed indicator OUT- (local: DD4)] | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10021 | A | From: [61A1 Tach Board (local: +LV2 connector -61XP1_D2_TAC (pin a26))] to: [Local(+END2) Connector: -90XP13.b pin2] | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10022 | A | From: [61A1 Tach Board (local: +LV2 connector -61XP1_D2_TAC (pin e28))] to: [Local(+END2) Connector: -90XP13.b pin1] | | OK | | Amanda Ntuli - 526239 | TC2 |
| 10023 | I | End of test | | OK | | Amanda Ntuli - 526239 | TC2 |

Section 5 – Report summaries

5.1 Results status

| Test Instruction Sheet | Compliant | Incomplete | Non-compliant |
|------------------------|-----------|------------|---------------|
| Reflectometry | X | | |
| Protective Bonding | X | | |
| Config | X | | |

5.2 Tools used

| Function | Tool name | Tool number | Next Calibration date |
|-----------------|------------------------|----------------------|-----------------------|
| 012 | Protective bonding | Megger | 8/25/2025 |
| 025_NET_054_PIS | Cable Analyser DSX5000 | Fluke machine_Gibela | 10/30/2024 |
| CONF | Multimetro | Multimeter 4 | 10/31/2024 |

| Vehicle | Equipment | Expected version | Version loaded |
|---------|-----------|------------------|----------------|
| TC2 | | | |