

Document Reference GIB0000006974 Version: A0 Emission date 20/07/2024

PROJECT	CUSTOMER	VEHICLE
Xtrapolis-PRASA	PRASA	236 – M2 – VPT

RTR Vehicle Pre-Testing TS236 M2 Report GIB0000006974



	CREATED	VERIFIED	APPROVED	DISTRIBUTION	
Name	Vusumuzi ZULU	Sifiso LUKHELE	Kgomotso NKOANA	Confidentiality Category **Restricted Project Normal**	
Date	20/07/2024	20/07/2024	20/07/2024	Control Category Controlled Not Controlled	
Signature				Language EN	

This report has been automatically generated from TES version 1



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Table of modifications

Rev	Date	Modifications Content	Writer
Ao	20/07/2024	Creation	Vusumuzi ZULU

Internal validations

	Name	Function	Date	Signature
Creator	Vusumuzi ZULU	EPU Manager	20/07/2024	Vusumuzi ZULU EPU Manager
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Approver	Kgomotso NKOANA	Test Expert	20/07/2024	Kgomotso NKOANA Test Expert

Execution Plan

Start Date	19/07/2024
End Date	19/07/2024

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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 and to verify wiring to the speed sensors and OTDR.

4. Traction motors

The objective of this procedure is to verify the wiring configuration of the motors. This is to ensure that all the motors are wired the same and shall rotate in the same direction in operation



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Section 2 - Protective Bonding and Return Current

2.1 Instructions list



2.1.1 012_PB-Protective Bonding and Return Current

I - Information

A - Action

R - Result

NE - Not Executed

N°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Return Circuit: Car Body to Ground		ОК		Philemon Milani - 484650	M2
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		ОК		Philemon Milani - 484650	M2
10003	А	Use the Tool List to record the serial number of the Ohmmeter that will be used in this test		ок		Philemon Milani - 484650	M2
10004	А	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.		ОК		Philemon Milani - 484650	M2
10005	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		ОК		Philemon Milani - 484650	M2
10006	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		ок		Philemon Milani - 484650	M2
10007	А	Visually identify and inspect that the earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame are properly connected to the axle brushes		ОК		Philemon Milani - 484650	M2
10008	А	Disconnect from the axle box the earthing cable of the 1st and 2nd axle of the 1st and 2nd Bogie Frame of the M2 car		ОК		Philemon Milani - 484650	M2
10009	R	All the earthing cables of the M2 car are disconnected.		ОК		Philemon Milani - 484650	M2
10010	А	Connect the earthing cable of the 1st axle in the 1st Bogie Frame		ок		Philemon Milani - 484650	M2
10011	R	Only the earthing cable of the 1st axle of the 1st Bogie Frame is connected		ок		Philemon Milani - 484650	M2



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10012	Α	Using an ohmmeter measure the impedance between the car body to rail	ОК		Philemon Milani - 484650	M2
10013	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	0.0001387	Philemon Milani - 484650	M2
10014	А	Disconnect the earthing cable of the 1st axle of the 1st bogie frame	ОК		Philemon Milani - 484650	M2
10015	R	Earthing cable disconnected	ОК		Philemon Milani - 484650	M2
10016	А	Connect the earthing cable of the 2nd axle in the 1st Bogie Frame	ОК		Philemon Milani - 484650	M2
10017	R	Only the earthing cable of the 2nd axle of the 1st Bogie Frame is connected	ОК		Philemon Milani - 484650	M2
10018	А	Using an ohmmeter measure the impedance between the car body to rail	ок		Philemon Milani - 484650	M2
10019	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	0.0001784	Philemon Milani - 484650	M2
10020	R	Earthing cable disconnected	ОК		Philemon Milani - 484650	M2
10021	А	Disconnect the earthing cable of the 2nd axle of the 1st bogie frame	ОК		Philemon Milani - 484650	M2
10022	I	Earthing of Equipment on the Underframe	ОК		Philemon Milani - 484650	M2
10023	А	Connect the earthing cable of the 1st axle in the 2nd Bogie Frame	ОК		Philemon Milani - 484650	M2
10024	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected	ОК		Philemon Milani - 484650	M2
10025	А	Using an ohmmeter measure the impedance between the car body to rail	ок		Philemon Milani - 484650	M2
10026	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	0.0002021	Philemon Milani - 484650	M2
10027	А	Disconnect the earthing cable of the 1st axle of the 2nd bogie frame	ОК		Philemon Milani - 484650	M2
10028	R	Earthing cable disconnected	ок		Philemon Milani - 484650	M2
10029	А	Connect the earthing cable of the 2nd axle in the 2nd Bogie Frame	ОК		Philemon Milani - 484650	M2
10030	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected	ОК		Philemon Milani - 484650	M2
10031	А	Using an ohmmeter measure the impedance between the car body to rail	ОК		Philemon Milani - 484650	M2

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10032	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	0.0001219	Philemon Milani - 484650	M2
10033	Α	Reconnect all earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame	ОК		Philemon Milani - 484650	M2
10034	R	All earthing cables connected on the 1st and 2nd Bogie Frame	ОК		Philemon Milani - 484650	M2
10035	А	Visually inspect that the earthing cable connecting the Traction Inverter Case to M2 car body is properly connected and related bolts are correctly torqued.	ок		Philemon Milani - 484650	M2
10036	R	Traction Inverter Case visually grounded and torque is correctly marked	ОК		Philemon Milani - 484650	M2
10037	А	Using an ohmmeter measure the impedance between the Traction Inverter Case and the car body	ОК		Philemon Milani - 484650	M2
10038	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	0.0001892	Philemon Milani - 484650	M2
10039	А	Visually inspect that the earthing cable connecting the Line Inductor Case to M4 car body is properly connected and related bolts are correctly torqued.	ОК		Philemon Milani - 484650	M2
10040	R	Line Inductor Case visually grounded and torque is correctly marked	ок		Philemon Milani - 484650	M2
10041	А	Using an ohmmeter measure the impedance between the Line Inductor Case and the car body	ОК		Philemon Milani - 484650	M2
10042	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	0.0001925	Philemon Milani - 484650	M2
10043	А	Visually inspect that the earthing cable connecting the Traction Motors of the 1st and 2nd axle of the 1st Bogie Frame to the car body is properly connected and related bolts are correctly torqued	ок		Philemon Milani - 484650	M2
10044	R	Traction Motors visually grounded and torque is correctly marked	ОК		Philemon Milani - 484650	M2
10045	А	Using an ohmmeter measure the impedance between the Traction Motors of the 1st and 2nd axle of the 1st Bogie Frame and the car body	ок		Philemon Milani - 484650	M2
10046	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	0.0001438	Philemon Milani - 484650	M2
10047	А	Visually inspect that the earthing cable connecting the Traction Motors of the 1st and 2nd axle of the 2nd Bogie Frame to	ОК		Philemon Milani - 484650	M2

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		the car body is properly connected and related bolts are correctly torqued				
10048	R	Traction Motors visually grounded and torque is correctly marked	ОК		Philemon Milani - 484650	M2
10049	А	Using an ohmmeter measure the impedance between the Traction Motors of the 1st and 2nd axle of the 2nd Bogie Frame and the car body	ОК		Philemon Milani - 484650	M2
10050	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	0.0001633	Philemon Milani - 484650	M2
10051	I	Earthing of Equipment on the Roof	ОК		Philemon Milani - 484650	M2
10052	А	Visually inspect that the earthing cable connecting the 1st Braking Resistor Box to M2 car body is properly connected and related bolts are correctly torqued.	ОК		Philemon Milani - 484650	M2
10053	R	1st Braking Resistor Box visually grounded and torque is correctly marked	ОК		Philemon Milani - 484650	M2
10054	А	Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body	ок		Philemon Milani - 484650	M2
10055	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	9.89E-05	Philemon Milani - 484650	M2
10056	А	Visually inspect that the earthing cable connecting the Saloon HVAC to M2 car body is properly connected and related bolts are correctly torqued.	ОК		Philemon Milani - 484650	M2
10057	R	Saloon HVAC visually grounded and torque is correctly marked	ОК		Philemon Milani - 484650	M2
10058	А	Using an ohmmeter measure the impedance between the Saloon HVAC and the car body	ОК		Philemon Milani - 484650	M2
10059	R	Impedance Result Max : x <= 0.05 (Ohms)	ОК	0.0001003	Philemon Milani - 484650	M2
10060	А	Visually inspect that the earthing cable connecting the 2nd Braking Resistor Box to M2 car body is properly connected and related bolts are correctly torqued.	ОК		Philemon Milani - 484650	M2
10061	R	2nd Braking Resistor Box visually grounded and torque is correctly marked	ОК		Philemon Milani - 484650	M2
10062	А	Using an ohmmeter measure the impedance between the 2nd Braking Resistor Box and the car body	ОК		Philemon Milani - 484650	M2



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10063	R	Impedance Result Max : x <= 0.05 (Ohms)		ОК	0.0001026	Philemon Milani - 484650	M2	
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Section 3 – Reflectometry

3.1 Instructions list

3.1.1 025_NET-Network Cabling Integrity

I - Information

A - Action

R - Result

NE - Not Executed

N°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	ı	Network Cabling Integrity Test		ок		Mlungisi Madela - 529927	M2
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.		ОК		Mlungisi Madela - 529927	M2
10003	I	The Cable Analyzer Module DSX-5000 will be used to validate cabling		ОК		Mlungisi Madela - 529927	M2
10004	ı	Register as a new Operator on the DSX- 5000. Check on the manual below on how to register as a new Operator	×	ОК		Mlungisi Madela - 529927	M2
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. TSO21_M2_P01 for PACIS and TSO21_M2_T01 for TCMS.		ОК		Mlungisi Madela - 529927	M2
10006	ı	TCMS cabling		ОК		Mlungisi Madela - 529927	M2
10007	А	From: [25A10 SWITCH ETHERNET (CRS1) (Local: +LV3; Connector: 25XP10_X4)] to: [25A11 SWITCH ETHERNET (CRS2) (Local: +LV3; Connector: 25XP11_X3)] NOTE: Cable is crossed TSX_M2_T01		ОК		Mlungisi Madela - 529927	M2
10008	А	From: [25A10 SWITCH ETHERNET (CRS1) (Local: +LV3; Connector: 25XP10_X3)] to: [Local: END1 , Connector 90XR21.All NOTE: Cable is crossed TSX_M2_T02		ОК		Mlungisi Madela - 529927	M2



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10009	А	From: [25A14 TBR-M2 (Local: +LV3; Connector: 25XP14_ETH0)] to: [(Local: +END1; Connector: 90XR21.Al)] NOTE: Cable is crossed TSX_M2_T03	ок	Mlungisi Madela - 529927	M2
10010	А	From: [25A14 TBR-M2 (Local: +LV3; Connector: 25XP14_ETH1)] to: [(Local: +END2; Connector: 90XR31.Al)] NOTE: Cable is crossed TSX_M2_T04	ОК	Mlungisi Madela - 529927	M2
10011	Α	From: [25A11 Ethernet Switch (Local: +LV3; Connector: 25XP11_X4)] to: [(Local: +END2; Connector: 90XR31.All)] NOTE: Cable is straight TSX_M2_T05	OK	Mlungisi Madela - 529927	M2
10012	А	From: [(Local: +END2; Connector: 90XR32.Al)] to: [(Local: +END1; Connector: 90XR22.Al)] NOTE: Cable is straight TSX_M2_T06	ОК	Mlungisi Madela - 529927	M2
10013	А	From: [(Local: +END2; Connector: 90XR32.All)] to: [(Local: +END1; Connector: 90XR22.All)] NOTE: Cable is straight TSX_M2_T07	ОК	Mlungisi Madela - 529927	M2
10014	I	Pacis cabling	ОК	Mlungisi Madela - 529927	M2
10015	А	From: [(Local: +END2; Connector: - 90XR32.Ell)] to: [(Local: +END1; Connector: -90XR22.Ell)] NOTE: Cable is straight TSX_M2_P01	OK	Mlungisi Madela - 529927	M2
10016	А	From: [54A10 SWITCH ETHERNET (CRS1) (Local: +LV6; Connector: 54XP10_X7)] to: [(Local: +END2; Connector: -90XR31.Ell)] NOTE: Cable is crossed TSX_M2_P02	OK	Mlungisi Madela - 529927	M2
10017	А	From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X8)] to: [(Local: +END1; Connector: -90XR21.Ell)] NOTE: Cable is straight	ОК	Mlungisi Madela - 529927	M2

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		TSX_M2_P03			
10018	А	From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X7)] to: [54A10 SWITCH ETHERNET (CRS1) (Local: +LV6; Connector: 54XP10_X8)] NOTE: Cable is crossed TSX_M2_P04	ОК	Mlungisi Madela - 529927	M2
10019	Α	All cables have been validated on M2	OK	Mlungisi Madela - 529927	M2
10020	R	Download all the results from Fluke and save them on PC with folder name "M2_TSxx"	ок	Ntobeko Ndlovu - 421595	M2



Section 4 - Config

4.1 Instructions list

4.1.1 CONFIG-Vehicle Configuration

I - Information

A - Action

R - Result

NE - Not Executed

N°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	ı	Configuration Checks		ок		Philemon Milani - 484650	M2
10002	А	Check continuity on all pins of End 1 connector 90XP15 & 90XP14 to ground		OK		Philemon Milani - 484650	M2
10003	R	There is no continuity		ОК		Philemon Milani - 484650	M2
10004	А	Check continuity on all pins of End 2 connector 90XP15 & 90XP14 to ground		ОК		Philemon Milani - 484650	M2
10005	R	There is no continuity		ОК		Philemon Milani - 484650	M2
10006	I	Smoke Detector Address Configuration		ОК		Philemon Milani - 484650	M2
10007	А	Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure below.		ОК		Philemon Milani - 484650	M2
10008	Α	Reconnect Smoke Detector 67A2		ок		Philemon Milani - 484650	M2
10009	А	Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure below.		ок		Philemon Milani - 484650	M2
10010	ı	Line Heat Detection		ОК		Philemon Milani - 484650	M2
10011	R	Measure the resistance between point 1 and point 4 of the connector 67XP3_11 Result Min/Max: 550<= x<= 700 ()		OK	633	Philemon Milani - 484650	M2
10012	Α	Reconnect Smoke Detector 67A3		ОК		Philemon Milani - 484650	M2
10013	ı	OTDR LOOP		ОК		Philemon Milani - 484650	M2
10014	ı	Check the continuity between the following points:		OK		Philemon Milani - 484650	M2



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10015	А	From: [+IV1 (local +END2 Connector 90XR33.B (pin 1))] to: [local +END1 Connector -90XR23.B (pin1)]	ок	Philemon Milani - 484650	M2
10016	А	From: [-IV1 (local +END2 Connector 90XR33.B (pin 2))] to: [local +END1 Connector -90XR23.B (pin 2)]	ок	Philemon Milani - 484650	M2

Section 5 - Traction Motors

5.1 Instructions list

5.1.1 011_TRM-Traction Motors

I - Information

A - Action

R - Result

NE - Not Executed

N°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	ı	Traction Motors (SPP = 11)		OK		Mphato Mphahlele - 480716	M2
10002	ı	Ensure all the CONNECTORS are fully ASSEMBLED before running a continuity test.		ОК		Mphato Mphahlele - 480716	M2
10003	ı	The following test is used to confirm the wiring of the traction motors.	8568 <u>-</u> 8568	ОК		Mphato Mphahlele - 480716	M2
10004	ı	SAFETY NOTICE: It is important to ensure that there is no 400Vac power supply on the vehicle.		ок		Mphato Mphahlele - 480716	M2
10005	А	Switch OFF the 400Vac power supply at the source and disconnect the supply cables from the vehicle		ОК		Mphato Mphahlele - 480716	M2
10006	R	There is no 400Vac available on the vehicle		ок		Mphato Mphahlele - 480716	M2
10007	I	Visual Inspection		OK		Mphato Mphahlele - 480716	M2
10008	I	For motor 1 and motor 2 connect 11XR1 and 11XR2 and visually inspect that the following cables are connected. From - 11XR1 connector to -11M1 motor and -11XR2 connector to -11M2 motor respectively. NOTE: the cable configuration should be straight, none should cross the other.		ОК		Mphato Mphahlele - 480716	M2
10009	I	Motor 2		OK		Mphato Mphahlele - 480716	M2
10010	R	[-11XR2 connector (local: UND - 11XP2_2.X1 pin 1)] connected to: [- 11XT2 motor terminals (U) -11M2].		ОК		Mphato Mphahlele - 480716	M2
10011	R	[-11XR2 connector (local: UND - 11XP2_2.X2 pin 1)] connected to: [-		OK		Mphato Mphahlele - 480716	M2



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		11XT2 motor terminals (V) -11M2].			
10012	R	[-11XR2 connector (local: UND - 11XP2_2.X3 pin 1)] connected to: [- 11XT2 motor terminals (W) -11M2].	ок	Mphato Mphahlele - 480716	M2
10013	R	-11M2 Motor terminals PE connected to - 11GND2.	ОК	Mphato Mphahlele - 480716	M2
10014	I	Motor 1	ОК	Mphato Mphahlele - 480716	M2
10015	R	[-11XR1 connector (local: UND - 11XP1_2.X1 pin 1)] connected to: [- 11XT1 motor terminals (U) -11M1].	ОК	Mphato Mphahlele - 480716	M2
10016	R	[-11XR1 connector (local: UND - 11XP1_2.X2 pin 1)] connected to: [- 11XT1 motor terminals (V) -11M1].	ОК	Mphato Mphahlele - 480716	M2
10017	R	[-11XR1 connector (local: UND - 11XP1_2.X3 pin 1)] connected to: [- 11XT1 motor terminals (W) -11M1].	ОК	Mphato Mphahlele - 480716	M2
10018	R	-11M1 Motor terminals PE connected to - 11GND1.	ОК	Mphato Mphahlele - 480716	M2
10019	I	Visual Inspection	ОК	Mphato Mphahlele - 480716	M2
10020	I	For motor 3 and motor 4 connect 11XR3 and 11XR4 and visually inspect that the following cables are connected. From - 11XR3 connector to -11M3 motor and - 11XR4 connector to -11M4 motor respectively. NOTE: the cable configuration should be straight, none should cross the other	ОК	Mphato Mphahlele - 480716	M2
10021	ı	Motor 3	ОК	Mphato Mphahlele - 480716	M2
10022	R	[-11XR3 connector (local: UND - 11XP3_2.X1 pin 1)] connected to: [- 11XT3 motor terminals (U) -11M3].	ОК	Mphato Mphahlele - 480716	M2
10023	R	[-11XR3 connector (local: UND - 11XP3_2.X2 pin 1)] connected to: [- 11XT3 motor terminals (V) -11M3].	ОК	Mphato Mphahlele - 480716	M2
10024	R	[-11XR3 connector (local: UND - 11XP3_2.X3 pin 1)] connected to: [- 11XT3 motor terminals (W) -11M3].	ОК	Mphato Mphahlele - 480716	M2
10025	R	-11M3 Motor terminals PE connected to - 11GND3	ОК	Mphato Mphahlele - 480716	M2



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10026	I	Motor 4	ок	Mphato Mphahlele - 480716	M2
10027	R	[-11XR4 connector (local: UND - 11XP4_2.X1 pin 1)] connected to: [- 11XT4 motor terminals (U) -11M4].	ОК	Mphato Mphahlele - 480716	M2
10028	R	[-11XR4 connector (local: UND - 11XP4_2.X2 pin 1)] connected to: [- 11XT4 motor terminals (V) -11M4].	ОК	Mphato Mphahlele - 480716	M2
10029	R	[-11XR4 connector (local: UND - 11XP4_2.X3 pin 1)] connected to: [- 11XT4 motor terminals (W) -11M4].	ОК	Mphato Mphahlele - 480716	M2
10030	R	-11M4 Motor terminals PE connected to - 11GND4.	ОК	Mphato Mphahlele - 480716	M2

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Section 6 – Report summaries

6.1 Results status

Test Instruction Sheet	Compliant	Incomplete	Non-compliant
Traction Motors	X		
Reflectometry	Х		
Protective Bonding and Return Current	X		
Config	X		

6.2 Tools used

Function	Tool name	Tool number
012_PB	Megger	Megger
025_NET	Cable Analyser DSX5000	Fluke machine_Gibela
CONFIG	Multimeter	Multimeter 2

Vehicle	Equipment	Expected version	Version loaded
M2			