PROJECT	CUSTOMER	TRAIN
Xtrapolis-PRASA	**PRASA**	**223 – ACT**

RTR Acceptance Test on Customer Track TS223 Report
GIB0000006496

	CREATED	VERIFIED	APPROVED	DISTRIBUTION
Name	Nhlakanipho MASONDO	Sifiso LUKHELE	Kgomotso NKOANA	Confidentiality Category *Restricted* ☐ *Project* ☐ *Normal* ☑
Date	10/06/2024	10/06/2024	10/06/2024	Control Category *Controlled* ☑ *Not Controlled* ☐
Signature				Language **EN**

This report has been automatically generated from TES version 1

Table of modifications

Rev	Date	Modifications Content	Writer
A0	10/06/2024	Creation	Nhlakanipho MASONDO

Internal validations

	Name	Function	Date	Signature
Creator	Nhlakanipho MASONDO	EPU Manager	10/06/2024	Nhlakanipho MASONDO EPU Manager
Verifier	Sifiso LUKHELE	Serial Test Manager	10/06/2024	Sifiso LUKHELE Serial Test Manager
Approver	Kgomotso NKOANA	Test Expert	10/06/2024	Kgomotso NKOANA Test Expert
Approver	Khehla VEZI	PRASA Validation	10/06/2024	Khehla VEZI PRASA Validation
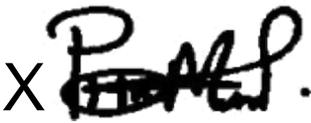
Execution Plan

Start Date	07/06/2024
End Date	07/06/2024

Contents

Section 1 – Purpose / Objectives

Section 2 – Acceptance Test

2.3 Instructions list

2.3.1 ACT-Acceptance Test

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

N°	Type	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Customer Acceptance Test		OK		Ntobeko Ndlovu - 421595	Train
10002	I	Static Tests	❌	OK		Ntobeko Ndlovu - 421595	Train
10003	I	Automatic Train Preparation TC1		OK		Ntobeko Ndlovu - 421595	Train
10004	I	Train should be OFF		OK		Ntobeko Ndlovu - 421595	Train
10005	I	Backup Mode switch 27S1 should be in NORMAL position		OK		Ntobeko Ndlovu - 421595	Train
10006	A	Turn the Driver's Master Key to ON position		OK		Ntobeko Ndlovu - 421595	Train
10007	A	Close the battery contactor 18S1		OK		Ntobeko Ndlovu - 421595	Train
10008	R	After few minutes, the train is LV ready with TCMS available		OK		Ntobeko Ndlovu - 421595	Train
10009	R	The battery voltage is 110V on the line voltage indicator		OK		Ntobeko Ndlovu - 421595	Train
10010	A	Login on the ERTMS Screen as using the Driver's code 70787878		OK		Ntobeko Ndlovu - 421595	Train
10011	A	Enter the Train number		OK		Ntobeko Ndlovu - 421595	Train
10012	A	Launch the mission 8100 for Pretoria		OK		Ntobeko Ndlovu - 421595	Train
10013	R	The Train number and mission are displayed on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10014	A	Press the automatic start button 20S1 or the virtual button on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10015	R	The automatic start button 20S1 is flashing during the train preparartion		OK		Ntobeko Ndlovu - 421595	Train
10016	R	On DDU screen, both pantographs are raised		OK		Ntobeko Ndlovu - 421595	Train
10017	R	Verify that both pantographs are raised when looking outside the train		OK		Ntobeko Ndlovu - 421595	Train

10018	R	On the Driver's desk, the button lamp of 21S1 is ON		OK		Ntobeko Ndlovu - 421595	Train
10019	R	On DDU screen, both HSCBs are closed		OK		Ntobeko Ndlovu - 421595	Train
10020	R	On the Driver's desk, the button lamp of HSCB closed 22S11 is ON		OK		Ntobeko Ndlovu - 421595	Train
10021	R	The automatic start button 20S1 stays ON after train preparation is complete		OK		Ntobeko Ndlovu - 421595	Train
10022	I	Train is in Prepared state		OK		Ntobeko Ndlovu - 421595	Train
10023	R	Check the line voltage on the Line voltage indicator and verify on the DDu screen that the value is more or less the same		OK		Ntobeko Ndlovu - 421595	Train
10024	R	Line Voltage Result Min : 2700<= x (V)		OK	3000	Ntobeko Ndlovu - 421595	Train
10025	A	Check the pressure indicator on the pneumatic gauge are correctly set		OK		Ntobeko Ndlovu - 421595	Train
10026	R	The indicator for the Main pipe is Red and the brake pipe is Yellow		OK		Ntobeko Ndlovu - 421595	Train
10027	R	Note the distance travelled by the train on the DDU screen Read Undefined Value : x (km)		OK	37	Ntobeko Ndlovu - 421595	Train
10028	I	Train Status		OK		Ntobeko Ndlovu - 421595	Train
10029	R	Check on the DDU screen that at least one type of brake is applied in all cars (Holding Brake, Emergency Brake or Parking Brake)		OK		Ntobeko Ndlovu - 421595	Train
10030	R	Train is on standstill		OK		Ntobeko Ndlovu - 421595	Train
10031	A	Check the Events screen on the DDU		OK		Ntobeko Ndlovu - 421595	Train
10032	R	No faults have been logged on the events list		OK		Ntobeko Ndlovu - 421595	Train
10033	I	If there are any events listed on the DDU screen, please verify that they are not critical events which can compromise the safety perfomances of the train. If not, create an event on TES for the events listed on the train for further investigation		OK		Ntobeko Ndlovu - 421595	Train
10034	I	Quality Inspection		OK		Ntobeko Ndlovu - 421595	Train
10035	I	Outside Train		OK		Ntobeko Ndlovu - 421595	Train

10036	A	Take a walk around the train and verify if there is not any abnormal noise that can be heard and also verify if all equipment are correctly mounted & normalized e.g. Speed sensors, connectors, normalization of test point covers for air.		OK		Ntobeko Ndlovu - 421595	Train
10037	R	No abnormal noise or equipments which are not correctly mounted		OK		Ntobeko Ndlovu - 421595	Train
10038	R	All underframe connectors are connected and tightly secured with screws		OK		Ntobeko Ndlovu - 421595	Train
10039	R	All exterior pacis displays are working		OK		Ntobeko Ndlovu - 421595	Train
10040	I	Inside Train		OK		Ntobeko Ndlovu - 421595	Train
10041	A	Check both MCE's in LV 2 if they are normalized.		OK		Ntobeko Ndlovu - 421595	Train
10042	R	Both MCE's are normalized.		OK		Ntobeko Ndlovu - 421595	Train
10043	A	Talk a walk inside the train and verify the correct operation of all subsystems		OK		Ntobeko Ndlovu - 421595	Train
10044	R	All internal pacis displays are working and the mission can be seen on the display		OK		Ntobeko Ndlovu - 421595	Train
10045	R	Internal lights are ON in all cars in 100% brightness, all LEDs are working in each light panel		OK		Ntobeko Ndlovu - 421595	Train
10046	R	There is no component with defect inside the train		OK		Ntobeko Ndlovu - 421595	Train
10047	A	RESET ERTMS Novrams.		OK		Ntobeko Ndlovu - 421595	Train
10048	R	ERTMS NOVRAMS reset is successful.		OK		Ntobeko Ndlovu - 421595	Train
10049	I	If anything is noted during the train walk, please create an Event on TES for all defects for further investigation		OK		Ntobeko Ndlovu - 421595	Train
10050	I	HVAC System		OK		Ntobeko Ndlovu - 421595	Train
10051	A	Launch the HVAC auto-test for all cars one by one on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10052	R	The HVAC is cooling,Ventilating and Heating in all cars including the Cabin		OK		Ntobeko Ndlovu - 421595	Train
10053	R	No faults are reported on the DDU event's list from the HVAC system		OK		Ntobeko Ndlovu - 421595	Train

10054	I	Doors command TC1		OK		Ntobeko Ndlovu - 421595	Train
10055	I	Door status on DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10056	A	Put the Door Auth Switch 50S7 in DRIVER position		OK		Ntobeko Ndlovu - 421595	Train
10057	A	Put the switch 30S1 in Depot Driving mode		OK		Ntobeko Ndlovu - 421595	Train
10058	R	All doors are closed and indicated in BLUE color on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10059	A	Press the DOOR AUTH left button 50S5		OK		Ntobeko Ndlovu - 421595	Train
10060	A	Press the DOOR OPEN left button 50S1		OK		Ntobeko Ndlovu - 421595	Train
10061	A	Press the DOOR AUTH right button 50S6		OK		Ntobeko Ndlovu - 421595	Train
10062	A	Press the DOOR OPEN right button 50S2		OK		Ntobeko Ndlovu - 421595	Train
10063	R	All doors are open and indicated in WHITE color on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10064	A	Walk around the train to verify that all doors are physically open		OK		Ntobeko Ndlovu - 421595	Train
10065	R	All doors are open		OK		Ntobeko Ndlovu - 421595	Train
10066	A	Press the DOOR CLOSE left button 50S3		OK		Ntobeko Ndlovu - 421595	Train
10067	A	Press the DOOR CLOSE right button 50S4		OK		Ntobeko Ndlovu - 421595	Train
10068	R	All doors are closed and indicated in BLUE color on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10069	A	Walk around the train to verify that all doors are physically closed		OK		Ntobeko Ndlovu - 421595	Train
10070	R	All doors are closed		OK		Ntobeko Ndlovu - 421595	Train
10071	I	External Lighting and Signalling TC1		OK		Ntobeko Ndlovu - 421595	Train
10072	I	The light status should be verified in both TC cars (front and back) in each case		OK		Ntobeko Ndlovu - 421595	Train
10073	R	Check white light 70H11 is ON (TC1 car).		OK		Ntobeko Ndlovu - 421595	Train
10074	R	Check red light 70H11 is OFF. Left side of the car (TC1 car).		OK		Ntobeko Ndlovu - 421595	Train

10075	R	Check white lights 70H5 and 70H6 are ON (TC1 car).		OK		Ntobeko Ndlovu - 421595	Train
10076	R	Check red lights 70H7 and 70H9 are OFF (TC1 car).		OK		Ntobeko Ndlovu - 421595	Train
10077	R	Check white light 70H11 is OFF (TC2 car).		OK		Ntobeko Ndlovu - 421595	Train
10078	R	Check red light 70H11 is ON. Left side of the car (TC2 car).		OK		Ntobeko Ndlovu - 421595	Train
10079	R	Check white lights 70H5 and 70H6 are OFF (TC2 car).		OK		Ntobeko Ndlovu - 421595	Train
10080	R	Check red lights 70H7 and 70H9 are ON (TC2 car).		OK		Ntobeko Ndlovu - 421595	Train
10081	R	Check Headlights 70H3 and 70H4 are OFF (TC2 car).		OK		Ntobeko Ndlovu - 421595	Train
10082	A	Press button 70S2 to activate Bright Headlight		OK		Ntobeko Ndlovu - 421595	Train
10083	R	White light 70H3 and 70H4 are in bright mode		OK		Ntobeko Ndlovu - 421595	Train
10084	R	Verify on the DDU screen that the bright mode is ON and corresponds with the square lighting on the button 70S2 and label on the Driver's desk		OK		Ntobeko Ndlovu - 421595	Train
10085	A	Press button 70S2 to activate Dimmed Headlight		OK		Ntobeko Ndlovu - 421595	Train
10086	R	White light 70H3 and 70H4 are in dimmed mode		OK		Ntobeko Ndlovu - 421595	Train
10087	R	Verify label on the Driver's desk		OK		Ntobeko Ndlovu - 421595	Train
10088	A	Press and maintain the whistle button 71S1		OK		Ntobeko Ndlovu - 421595	Train
10089	R	The whistle can be heard on TC1 cab		OK		Ntobeko Ndlovu - 421595	Train
10090	A	Release the whistle button 71S1		OK		Ntobeko Ndlovu - 421595	Train
10091	R	The whistle stops		OK		Ntobeko Ndlovu - 421595	Train
10092	A	Press the foot pedal and maintain it		OK		Ntobeko Ndlovu - 421595	Train
10093	R	The high pitch horn can be heard within 100m distance		OK		Ntobeko Ndlovu - 421595	Train

10094	A	Release the foot pedal		OK		Ntobeko Ndlovu - 421595	Train
10095	R	The high pitch horn stops		OK		Ntobeko Ndlovu - 421595	Train
10096	A	Press the DOOR AUTH LEFT button 50S5		OK		Ntobeko Ndlovu - 421595	Train
10097	A	Turn the switch 72S10 to open the left mirror and maintain it		OK		Ntobeko Ndlovu - 421595	Train
10098	R	The mirror opens wide enough to show the full platform and the glass is not blurry		OK		Ntobeko Ndlovu - 421595	Train
10099	A	Release the switch 72S10		OK		Ntobeko Ndlovu - 421595	Train
10100	R	The mirror returns to the closed position		OK		Ntobeko Ndlovu - 421595	Train
10101	A	Press the DOOR AUTH RIGHT button 50S6		OK		Ntobeko Ndlovu - 421595	Train
10102	A	Turn the switch 72S10 to open the right mirror and maintain it		OK		Ntobeko Ndlovu - 421595	Train
10103	R	The mirror opens wide enough to show the full platform and the glass is not blurry		OK		Ntobeko Ndlovu - 421595	Train
10104	A	Release the switch 72S10		OK		Ntobeko Ndlovu - 421595	Train
10105	R	The mirror returns to the closed position		OK		Ntobeko Ndlovu - 421595	Train
10106	A	Press the door close left button 50S3		OK		Ntobeko Ndlovu - 421595	Train
10107	A	Press the door close right button 50S4		OK		Ntobeko Ndlovu - 421595	Train
10108	I	Pre-departure tests TC1		OK		Ntobeko Ndlovu - 421595	Train
10109	A	On the DDU screen, press the Brake Test virtual button and follow the steps to run the brake test for all four traction units		OK		Ntobeko Ndlovu - 421595	Train
10110	R	After the brake test has been completed, the test indicates as passed on DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10111	R	No brake faults have been loaded on the event's list on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10112	A	On the DDU screen, press the Traction Test virtual button and follow the steps to run the traction test		OK		Ntobeko Ndlovu - 421595	Train
10113	R	After the traction test has been completed and passed on the DDU screen, verify that no faults have been loaded on the Driver's		OK		Ntobeko Ndlovu - 421595	Train

		event list				
10114	A	Turn the battery contactor 18S1 to OFF position		OK	Ntobeko Ndlovu - 421595	Train
10115	A	Wait at least 1 minute for Pacis system to completely shutdown		OK	Ntobeko Ndlovu - 421595	Train
10116	R	Verify that the ACU agate is OFF in TC1		OK	Ntobeko Ndlovu - 421595	Train
10117	A	Turn the battery contactor 18S1 to ON position		OK	Ntobeko Ndlovu - 421595	Train
10118	A	After TCMS initialisation, press the automatic start button 20S1		OK	Ntobeko Ndlovu - 421595	Train
10119	R	After few minutes, the train is in Prepared state		OK	Ntobeko Ndlovu - 421595	Train
10120	A	Login on the ERTMS Screen as using the Driver's code 70787878		OK	Ntobeko Ndlovu - 421595	Train
10121	A	Enter the Train number		OK	Ntobeko Ndlovu - 421595	Train
10122	A	Launch the mission 8100 for Pretoria		OK	Ntobeko Ndlovu - 421595	Train
10123	R	The Train number and mission are displayed on the DDU screen		OK	Ntobeko Ndlovu - 421595	Train
10124	I	UHF Radio Test TC1		OK	Ntobeko Ndlovu - 421595	Train
10125	A	Enter train number "91001" and press select		OK	Ntobeko Ndlovu - 421595	Train
10126	R	The Radio displays "D 9900" and the network bars are visible		OK	Ntobeko Ndlovu - 421595	Train
10127	A	Dial " 204 2001 203" and press the PTT key to call the Metro base station in Johannesburg		OK	Ntobeko Ndlovu - 421595	Train
10128	R	The radio displays a calling screen, with a 4 minute timer		OK	Ntobeko Ndlovu - 421595	Train
10129	A	Listen for a response, Identify yourself and request a call back to verify that the radio can receive calls. End the call		OK	Ntobeko Ndlovu - 421595	Train
10130	R	The Radio can make a call and communication is clear		OK	Ntobeko Ndlovu - 421595	Train
10131	A	Answer the incoming call, Identify yourself and end the call		OK	Ntobeko Ndlovu - 421595	Train

10132	R	The Radio can receive a call and communication is clear		OK		Ntobeko Ndlovu - 421595	Train
10133	I	GSM Radio Test TC1					
10134	A	On the GSM cab radio, verify radio is not faulty and the network is available					
10135	A	Initiate a call by dialling the phone number provided by the Prasa personnel available during ACT to communicate with the Prasa ground station					
10136	R	When call has been received at the Prasa station, Identify yourself and verify communication is clear during the call					
10137	A	Request permission to use the Mainline for Acceptance test		OK		Ntobeko Ndlovu - 421595	Train
10138	R	Permission to use the Mainline for Acceptance test has been granted		OK		Ntobeko Ndlovu - 421595	Train
10139	A	Turn the battery contactor 18S1 to OFF position		OK		Ntobeko Ndlovu - 421595	Train
10140	I	Automatic Train Preparation TC2		OK		Ntobeko Ndlovu - 421595	Train
10141	I	Train should be OFF		OK		Ntobeko Ndlovu - 421595	Train
10142	I	Backup Mode switch 27S1 should be in NORMAL position		OK		Ntobeko Ndlovu - 421595	Train
10143	A	Turn the Driver's Master Key to ON position		OK		Ntobeko Ndlovu - 421595	Train
10144	A	Close the battery contactor 18S1		OK		Ntobeko Ndlovu - 421595	Train
10145	R	After few minutes, the train is LV ready with TCMS available		OK		Ntobeko Ndlovu - 421595	Train
10146	R	The battery voltage is 110V on the line voltage indicator		OK		Ntobeko Ndlovu - 421595	Train
10147	A	Login on the ERTMS Screen as using the Driver's code 70787878		OK		Ntobeko Ndlovu - 421595	Train
10148	A	Enter the Train number		OK		Ntobeko Ndlovu - 421595	Train
10149	A	Launch the mission 8100 for Pretoria		OK		Ntobeko Ndlovu - 421595	Train
10150	R	The Train number and mission are displayed on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train

10151	A	Press the automatic start button 20S1 or the virtual button on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10152	R	The automatic start button 20S1 is flashing during the train preparation		OK		Ntobeko Ndlovu - 421595	Train
10153	R	On DDU screen, both pantographs are raised		OK		Ntobeko Ndlovu - 421595	Train
10154	R	Verify that both pantographs are raised when looking outside the train		OK		Ntobeko Ndlovu - 421595	Train
10155	R	On the Driver's desk, the button lamp of 21S1 is ON		OK		Ntobeko Ndlovu - 421595	Train
10156	R	On DDU screen, both HSCBs are closed		OK		Ntobeko Ndlovu - 421595	Train
10157	R	On the Driver's desk, the button lamp of HSCB closed 22S11 is ON		OK		Ntobeko Ndlovu - 421595	Train
10158	R	The automatic start button 20S1 stays ON after train preparation is complete		OK		Ntobeko Ndlovu - 421595	Train
10159	I	Train is in Prepared state		OK		Ntobeko Ndlovu - 421595	Train
10160	R	Check the line voltage on the Line voltage indicator and verify on the DDu screen that the value is more or less the same		OK		Ntobeko Ndlovu - 421595	Train
10161	R	Line Voltage Result Min : 2700<= x (V)		OK	3000	Ntobeko Ndlovu - 421595	Train
10162	A	Check the pressure indicator on the pneumatic gauge are correctly set		OK		Ntobeko Ndlovu - 421595	Train
10163	R	The indicator for the Main pipe is Red and the brake pipe is Yellow		OK		Ntobeko Ndlovu - 421595	Train
10164	I	Doors command TC2		OK		Ntobeko Ndlovu - 421595	Train
10165	I	Door status on DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10166	A	Put the Door Auth Switch 50S7 in DRIVER position		OK		Ntobeko Ndlovu - 421595	Train
10167	A	Put the switch 30S1 in Depot Driving mode		OK		Ntobeko Ndlovu - 421595	Train
10168	R	All doors are closed and indicated in BLUE colour on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10169	A	Press the DOOR AUTH left button 50S5		OK		Ntobeko Ndlovu - 421595	Train
10170	A	Press the DOOR OPEN left button 50S1		OK		Ntobeko Ndlovu - 421595	Train

10171	A	Press the DOOR AUTH right button 50S6		OK		Ntobeko Ndlovu - 421595	Train
10172	A	Press the DOOR OPEN right button 50S2		OK		Ntobeko Ndlovu - 421595	Train
10173	R	All doors are open and indicated in WHITE color on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10174	A	Press the DOOR CLOSE left button 50S3		OK		Ntobeko Ndlovu - 421595	Train
10175	A	Press the DOOR CLOSE right button 50S4		OK		Ntobeko Ndlovu - 421595	Train
10176	R	All doors are closed and indicated in BLUE color on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10177	I	External Lighting and Signalling TC2		OK		Ntobeko Ndlovu - 421595	Train
10178	I	The light status should be verified in both TC cars (front and back) in each case		OK		Ntobeko Ndlovu - 421595	Train
10179	R	Check white light 70H11 is ON (TC2 car)		OK		Ntobeko Ndlovu - 421595	Train
10180	R	Check red light 70H11 is OFF. Left side of the car (TC2 car		OK		Ntobeko Ndlovu - 421595	Train
10181	R	Check white lights 70H5 and 70H6 are ON (TC2 car)		OK		Ntobeko Ndlovu - 421595	Train
10182	R	Check red lights 70H7 and 70H9 are OFF (TC2 car).		OK		Ntobeko Ndlovu - 421595	Train
10183	R	Check white light 70H11 is OFF (TC1 car)		OK		Ntobeko Ndlovu - 421595	Train
10184	R	Check red light 70H11 is ON. Left side of the car (TC1 car)		OK		Ntobeko Ndlovu - 421595	Train
10185	R	Check white lights 70H5 and 70H6 are OFF (TC1 car)		OK		Ntobeko Ndlovu - 421595	Train
10186	R	Check red lights 70H7 and 70H9 are ON (TC1 car)		OK		Ntobeko Ndlovu - 421595	Train
10187	R	Check Headlights 70H3 and 70H4 are OFF (TC1 car)		OK		Ntobeko Ndlovu - 421595	Train
10188	A	Press button 70S2 to activate Bright Headlight		OK		Ntobeko Ndlovu - 421595	Train
10189	R	White light 70H3 and 70H4 are in bright mode		OK		Ntobeko Ndlovu - 421595	Train
10190	R	Verify on the DDU screen that the bright mode is ON and corresponds with the square lighting on the button 70S2 and		OK		Ntobeko Ndlovu - 421595	Train

		label on the Driver's desk					
10191	A	Press button 70S2 to activate Dimmed Headlight		OK		Ntobeko Ndlovu - 421595	Train
10192	R	White light 70H3 and 70H4 are in dimmed mode		OK		Ntobeko Ndlovu - 421595	Train
10193	R	Verify label on the Driver's desk		OK		Ntobeko Ndlovu - 421595	Train
10194	A	Press and maintain the whistle button 71S1		OK		Ntobeko Ndlovu - 421595	Train
10195	R	The whistle can be heard on TC1 cab		OK		Ntobeko Ndlovu - 421595	Train
10196	A	Release the whistle button 71S1		OK		Ntobeko Ndlovu - 421595	Train
10197	R	The whistle stops		OK		Ntobeko Ndlovu - 421595	Train
10198	A	Press the foot pedal and maintain it		OK		Ntobeko Ndlovu - 421595	Train
10199	R	The high pitch horn can be heard within 100m distance		OK		Ntobeko Ndlovu - 421595	Train
10200	A	Release the foot pedal		OK		Ntobeko Ndlovu - 421595	Train
10201	R	The high pitch horn stops		OK		Ntobeko Ndlovu - 421595	Train
10202	A	Press the DOOR AUTH LEFT button 50S5		OK		Ntobeko Ndlovu - 421595	Train
10203	A	Turn the switch 72S10 to open the left mirror and maintain it		OK		Ntobeko Ndlovu - 421595	Train
10204	R	The mirror opens wide enough to show the full platform and the glass is not blurry		OK		Ntobeko Ndlovu - 421595	Train
10205	A	Release the switch 72S10		OK		Ntobeko Ndlovu - 421595	Train
10206	R	The mirror returns to the closed position		OK		Ntobeko Ndlovu - 421595	Train
10207	A	Press the DOOR AUTH RIGHT button 50S6		OK		Ntobeko Ndlovu - 421595	Train
10208	A	Turn the switch 72S10 to open the right mirror and maintain it		OK		Ntobeko Ndlovu - 421595	Train
10209	R	The mirror opens wide enough to show the full platform and the glass is not blurry		OK		Ntobeko Ndlovu - 421595	Train
10210	A	Release the switch 72S10		OK		Ntobeko Ndlovu - 421595	Train
10211	R	The mirror returns to the closed position		OK		Ntobeko Ndlovu - 421595	Train

10212	A	Press the door close left button 50S3		OK		Ntobeko Ndlovu - 421595	Train
10213	A	Press the door close right button 50S4		OK		Ntobeko Ndlovu - 421595	Train
10214	I	Pre-departure tests TC2		OK		Ntobeko Ndlovu - 421595	Train
10215	A	On the DDU screen, press the Brake Test virtual button and follow the steps to run the brake test for all four traction units		OK		Ntobeko Ndlovu - 421595	Train
10216	R	After the brake test has been completed, the test indicates as passed on DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10217	R	No brake faults have been loaded on the event's list on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train
10218	A	On the DDU screen, press the Traction Test virtual button and follow the steps to run the traction test		OK		Ntobeko Ndlovu - 421595	Train
10219	R	After the traction test has been completed and passed on the DDU screen, verify that no faults have been loaded on the Driver's event list		OK		Ntobeko Ndlovu - 421595	Train
10220	A	Turn the battery contactor 18S1 to OFF position		OK		Ntobeko Ndlovu - 421595	Train
10221	A	Wait at least 1 minute for Pacis system to completely shutdown		OK		Ntobeko Ndlovu - 421595	Train
10222	R	Verify that the ACU agate is OFF in TC2		OK		Ntobeko Ndlovu - 421595	Train
10223	A	Turn the battery contactor 18S1 to ON position		OK		Ntobeko Ndlovu - 421595	Train
10224	A	After TCMS initialisation, press the automatic start button 20S1		OK		Ntobeko Ndlovu - 421595	Train
10225	R	After few minutes, the train is in Prepared state		OK		Ntobeko Ndlovu - 421595	Train
10226	A	Login on the ERTMS Screen as using the Driver's code 12345612		OK		Ntobeko Ndlovu - 421595	Train
10227	A	Enter the Train number		OK		Ntobeko Ndlovu - 421595	Train
10228	A	Launch the mission 8100 for Pretoria		OK		Ntobeko Ndlovu - 421595	Train
10229	R	The Train number and mission are displayed on the DDU screen		OK		Ntobeko Ndlovu - 421595	Train

10230	I	UHF Radio Test TC2		OK		Ntobeko Ndlovu - 421595	Train
10231	A	Enter train number "91001" and press select		OK		Ntobeko Ndlovu - 421595	Train
10232	R	The Radio displays "D 9900" and the network bars are visible		OK		Ntobeko Ndlovu - 421595	Train
10233	A	Dial " 204 2001 203" and press the PTT key to call the Metro base station in Johannesburg		OK		Ntobeko Ndlovu - 421595	Train
10234	R	The radio displays a calling screen, with a 4 minute timer		OK		Ntobeko Ndlovu - 421595	Train
10235	A	Listen for a response, Identify yourself and request a call back to verify that the radio can receive calls. End the call		OK		Ntobeko Ndlovu - 421595	Train
10236	R	The Radio can make a call and communication is clear		OK		Ntobeko Ndlovu - 421595	Train
10237	A	Answer the incoming call, Identify yourself and end the call		OK		Ntobeko Ndlovu - 421595	Train
10238	R	The Radio can receive a call and communication is clear		OK		Ntobeko Ndlovu - 421595	Train
10239	I	GSM Radio Test TC2					
10240	A	On the GSM cab radio, verify radio is not faulty and the network is available					
10241	A	Initiate a call by dialling the phone number provided by the Prasa personnel available during ACT to communicate with the Prasa ground station.					
10242	R	When call has been received at the Prasa station, Identify yourself and verify communication is clear during the call					
10243	A	Turn the battery contactor 18S1 to OFF position		OK		Ntobeko Ndlovu - 421595	Train
10244	A	Remove active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10245	I	Dynamic Test		OK		Ntobeko Ndlovu - 421595	Train
10246	I	Initial conditions		OK		Ntobeko Ndlovu - 421595	Train
10247	I	The tests shall be done under dry and calm weather conditions.		OK		Ntobeko Ndlovu - 421595	Train

10248	I	Traction and Braking tests shall be carried out on a straight (R≥700m) well bedded level track (maximum gradient ≤5‰ with at least 3km length. This track should be dry and clean when performing the tests, and not carried out under degraded adhesion conditions.		OK		Ntobeko Ndlovu - 421595	Train
10249	I	The 3,3kV nominal electric supply should be capable to accelerate the Module up to required speed. The supply voltage should not drop below 2,7kV during the tests.		OK		Ntobeko Ndlovu - 421595	Train
10250	I	The tests must be performed on a healthy PRASA ˙Xtrapolis 6 car module and fully mounted. If components are missing (in particular components participating in the vehicle aerodynamics or mass), it shall be noted down, and it shall be decided at the time of the test if can be performed or not. Tests could be conducted with maximum diameter wheels. Tests must be conducted with all cars fully functional except when otherwise requested.		OK		Ntobeko Ndlovu - 421595	Train
10251	I	It is required one test to each direction, but the variation on the results must be considered and additional tests may be necessary.		OK		Ntobeko Ndlovu - 421595	Train
10252	I	The tests shall be performed in M1 load condition (mass per vehicle with all equipment).		OK		Ntobeko Ndlovu - 421595	Train
10253	I	Train running in ETCS level 0 TC1		OK		Ntobeko Ndlovu - 421595	Train
10254	A	Active cab on TC1		OK		Ntobeko Ndlovu - 421595	Train
10255	I	Take the Train till ERTMS zone and there the Train shall be turned off.		OK		Ntobeko Ndlovu - 421595	Train
10256	A	Push the Automatic Start Pushbutton (20S1) on the Driver Desk or virtual button on DDU Screen.		OK		Ntobeko Ndlovu - 421595	Train
10257	R	Train deprepared.		OK		Ntobeko Ndlovu - 421595	Train
10258	A	Turn Battery Contactor Switch (18S1) to "OFF" Position on TC1 Car.		OK		Ntobeko Ndlovu - 421595	Train
10259	R	Check on DDU SCREEN the message: "Shutdown In Progress".		OK		Ntobeko Ndlovu - 421595	Train
10260	R	In 30 seconds, Train will be completely OFF.		OK		Ntobeko Ndlovu - 421595	Train

10261	A	Turn the ERTMS Isolation switch (62S1) to the "NORMAL" position in TC1 and TC2 cabs.		OK		Ntobeko Ndlovu - 421595	Train
10262	A	Turn the Driver's Master key (30A1S1) into the "ON" position in the TC1 cab.		OK		Ntobeko Ndlovu - 421595	Train
10263	A	Turn Battery Contactor Switch (18S1) to "ON" Position on TC1 Car.		OK		Ntobeko Ndlovu - 421595	Train
10264	A	Wait until appears the Login screen on ERTMS DMI screen, and then enters the driver's identification number.		OK		Ntobeko Ndlovu - 421595	Train
10265	A	Select ETCS level 0.		OK		Ntobeko Ndlovu - 421595	Train
10266	A	On ERTMS DMI screen, enter the number of cars of the Train (6 cars).		OK		Ntobeko Ndlovu - 421595	Train
10267	A	On ERTMS DMI screen, enter the nominal brake percentage (209%), which means that there is no car with pneumatic brake isolated on the Train.		OK		Ntobeko Ndlovu - 421595	Train
10268	A	On ERTMS DMI screen, enter the respective Train Running Number.		OK		Ntobeko Ndlovu - 421595	Train
10269	A	Select start from main menu option 1 (ETCS should now be in unfitted mode).		OK		Ntobeko Ndlovu - 421595	Train
10270	I	In unfitted mode the ETCS speed protection mode is set to 100km/h.		OK		Ntobeko Ndlovu - 421595	Train
10271	A	Push the Automatic Start Pushbutton (20S1) on the Driver Desk or virtual button on DDU Screen.		OK		Ntobeko Ndlovu - 421595	Train
10272	R	Train in Prepared state with both Pantographs UP and both HSCBs closed.		OK		Ntobeko Ndlovu - 421595	Train
10273	A	Set the Driving Mode Switch to "EFFORT" position in TC1 cab.		OK		Ntobeko Ndlovu - 421595	Train
10274	A	Set the Driving Direction Switch to "FORWARD" position.		OK		Ntobeko Ndlovu - 421595	Train
10275	A	Accelerate the train to 100 km/h and continue to slowly to increase the speed (Note stay within allowed track speed).		OK		Ntobeko Ndlovu - 421595	Train
10276	R	When the Train speed overpass the warning speed of 104 km/h, a warning sound can be heard on active cab.		OK		Ntobeko Ndlovu - 421595	Train

10277	R	Full service brake applied on the Train by ERTMS because Train speed overpasses the service brake intervention curve calculated by ERTMS system.		OK		Ntobeko Ndlovu - 421595	Train
10278	R	The service brake is released below 100 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10279	A	Set the Master Controller to "MAX TRACTION" position.		OK		Ntobeko Ndlovu - 421595	Train
10280	R	Train starts to run with max traction effort.		OK		Ntobeko Ndlovu - 421595	Train
10281	A	Continue increasing slowly the traction effort until the train applies full service brake by the ERTMS (around 106 km/h).		OK		Ntobeko Ndlovu - 421595	Train
10282	R	When the Train overpass the emergency brake intervention of 107.5 km/h, the emergency brake is applied by the ERTMS and ERTMS Brake Icon displayed on the ERTMS DMI.		OK		Ntobeko Ndlovu - 421595	Train
10283	R	Train comes to a complete stop and ERTMS brake Icon disappears from the DMI.		OK		Ntobeko Ndlovu - 421595	Train
10284	R	The pantographs are lowered and the HSCB are opened.		OK		Ntobeko Ndlovu - 421595	Train
10285	A	Raise the pantographs and close the HSCB by the automatic switch.		OK		Ntobeko Ndlovu - 421595	Train
10286	A	Reset the emergency brake setting the direction switch (S2.2) to "NEUTRAL" position and then to "FORWARD" position again.		OK		Ntobeko Ndlovu - 421595	Train
10287	A	Remove active cab on TC1		OK		Ntobeko Ndlovu - 421595	Train
10288	I	Train running in ETCS level 0 TC2		OK		Ntobeko Ndlovu - 421595	Train
10289	A	Active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10290	A	Turn the ERTMS Isolation switch (62S1) to the "NORMAL" position in TC1 and TC2 cabs.		OK		Ntobeko Ndlovu - 421595	Train
10291	A	Wait until appears the Login screen on ERTMS DMI screen, and then enters the driver's identification number.		OK		Ntobeko Ndlovu - 421595	Train
10292	A	Select ETCS level 0.		OK		Ntobeko Ndlovu - 421595	Train

10293	A	On ERTMS DMI screen, enter the number of cars of the Train (6 cars).		OK		Ntobeko Ndlovu - 421595	Train
10294	A	On ERTMS DMI screen, enter the nominal brake percentage (209%), which means that there is no car with pneumatic brake isolated on the Train.		OK		Ntobeko Ndlovu - 421595	Train
10295	A	On ERTMS DMI screen, enter the respective Train Running Number.		OK		Ntobeko Ndlovu - 421595	Train
10296	A	Select start from main menu option 1 (ETCS should now be in unfitted mode).		OK		Ntobeko Ndlovu - 421595	Train
10297	I	The Train shall be turned off.		OK		Ntobeko Ndlovu - 421595	Train
10298	I	In unfitted mode the ETCS speed protection mode is set to 100km/h.		OK		Ntobeko Ndlovu - 421595	Train
10299	A	Push the Automatic Start Pushbutton (20S1) on the Driver Desk or virtual button on DDU Screen.		OK		Ntobeko Ndlovu - 421595	Train
10300	R	Train in Prepared state with both Pantographs UP and both HSCBs closed.		OK		Ntobeko Ndlovu - 421595	Train
10301	A	Set the Driving Mode Switch to "EFFORT" position in TC1 cab.		OK		Ntobeko Ndlovu - 421595	Train
10302	A	Set the Driving Direction Switch to "FORWARD" position.		OK		Ntobeko Ndlovu - 421595	Train
10303	A	Accelerate the train to 100 km/h and continue to slowly to increase the speed (Note stay within allowed track speed).		OK		Ntobeko Ndlovu - 421595	Train
10304	R	When the Train speed overpass the warning speed of 104 km/h, a warning sound can be heard on active cab.		OK		Ntobeko Ndlovu - 421595	Train
10305	R	Full service brake applied on the Train by ERTMS because Train speed overpasses the service brake intervention curve calculated by ERTMS system.		OK		Ntobeko Ndlovu - 421595	Train
10306	R	The service brake is released below 100 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10307	A	Set the Master Controller to "MAX TRACTION" position.		OK		Ntobeko Ndlovu - 421595	Train
10308	R	Train starts to run with max traction effort.		OK		Ntobeko Ndlovu - 421595	Train

10309	A	Continue increasing slowly the traction effort until the train applies full service brake by the ERTMS (around 106 km/h).		OK		Ntobeko Ndlovu - 421595	Train
10310	R	When the Train overpass the emergency brake intervention of 107.5 km/h, the emergency brake is applied by the ERTMS and ERTMS Brake Icon displayed on the ERTMS DMI.		OK		Ntobeko Ndlovu - 421595	Train
10311	R	Train comes to a complete stop and ERTMS brake Icon disappears from the DMI.		OK		Ntobeko Ndlovu - 421595	Train
10312	R	The pantographs are lowered and the HSCB are opened.		OK		Ntobeko Ndlovu - 421595	Train
10313	A	Put the direction switch (S2.2) to "NEUTRAL" position.		OK		Ntobeko Ndlovu - 421595	Train
10314	A	Raise the pantographs and close the HSCB by the automatic switch.		OK		Ntobeko Ndlovu - 421595	Train
10315	I	Brakes Bedding		OK		Ntobeko Ndlovu - 421595	Train
10316	I	Bedding is a process where the brake pads and the brake disc must be at maximum contact with each other (Smooth surface). This allows the train to have maximum performance on the brakes.		OK		Ntobeko Ndlovu - 421595	Train
10317	I	When bedding the train, set the master controller to max traction position and accelerate the train up to 120km/h and use emergency brake to stop.		OK		Ntobeko Ndlovu - 421595	Train
10318	A	After ERTMS test start bedding all the way to Taillardshoop Station. Then bed all the way to Rosslyn Station and back to Taillardshoop Station. These equates to 3 bedding runs.		OK		Ntobeko Ndlovu - 421595	Train
10319	I	Preparation for Traction and Braking tests		OK		Ntobeko Ndlovu - 421595	Train
10320	A	Connect a laptop to the train network through the software TrainTracer and prepare it to record the following variables: REC_TrainSpeed Li_DRC_Tc1MCBrakeR1 Li_DRC_Tc2MCBrakeR1 Li_UBK_Tc1EmgcyBrkPBR1 Li_UBK_Tc2EmgcyBrkPBR1		OK		Ntobeko Ndlovu - 421595	Train
10321	A	Use the following attached document to calculate the Acceleration for each speed		OK		Ntobeko Ndlovu - 421595	Train

10322	A	Use the following attached document to save all the curves for each speed			OK		Ntobeko Ndlovu - 421595	Train
10323	A	Prepare the train with active cab on TC1			OK		Ntobeko Ndlovu - 421595	Train
10324	A	Verify that the emergency brake mushroom buttons "44S1" are released in both cabs.			OK		Ntobeko Ndlovu - 421595	Train
10325	A	Set the Master Controller to "OFF" position.			OK		Ntobeko Ndlovu - 421595	Train
10326	A	Turn the ERTMS Isolation switch (62S1) to the "ISOLATION" position in TC1 cab.			OK		Ntobeko Ndlovu - 421595	Train
10327	A	Set the Driving Mode Switch to "EFFORT" position in TC1 cab.			OK		Ntobeko Ndlovu - 421595	Train
10328	A	Set the Driving Direction Switch to "FORWARD" position.			OK		Ntobeko Ndlovu - 421595	Train
10329	R	Traction system is enabled to start the test.			OK		Ntobeko Ndlovu - 421595	Train
10330	I	Train maximum speed and stopping distance test in normal brake condition at 120km/h TC1			OK		Ntobeko Ndlovu - 421595	Train
10331	A	Force [TT] SBK_BrakeDist = 0.0			OK		Ntobeko Ndlovu - 421595	Train
10332	A	Release [TT] SBK_BrakeDist			OK		Ntobeko Ndlovu - 421595	Train
10333	A	Active Cab on TC1			OK		Ntobeko Ndlovu - 421595	Train
10334	A	With the Train Tracer, start to record the variables listed on Preparation topic above.			OK		Ntobeko Ndlovu - 421595	Train
10335	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 120 km/h.			OK		Ntobeko Ndlovu - 421595	Train
10336	A	At 120km/h, keep the Master Controller in "MAX TRACTION" position accelerating the train up to a speed of 123km/h.			OK		Ntobeko Ndlovu - 421595	Train
10337	A	After reached the speed of 123km/h, set the Master Controller to "OFF" position until the Train reduces the speed to 120±2km/h and then set the Master to "MAX SERVICE BRAKE" position until the			OK		Ntobeko Ndlovu - 421595	Train

		train comes to a complete stop.					
10338	A	Stop the Train Tracer recording process.		OK		Ntobeko Ndlovu - 421595	Train
10339	R	Result Max [TT] SBK_BrakeDist : x <= 680		OK	564	Ntobeko Ndlovu - 421595	Train
10340	A	Check that the train reached a speed of 123km/h within approximately 4 seconds after reaching 120km/h.		OK		Ntobeko Ndlovu - 421595	Train
10341	R	Time to reach 123km/h from 120km/h is not higher than 4 seconds.		OK		Ntobeko Ndlovu - 421595	Train
10342	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template (Showing the acceleration from 120 to 123 km/h)		OK		Ntobeko Ndlovu - 421595	Train
10343	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train
10344	R	The mean deceleration rate must be at least 0,9m/s².		OK		Ntobeko Ndlovu - 421595	Train
10345	A	Remove active cab on TC1		OK		Ntobeko Ndlovu - 421595	Train
10346	I	Train maximum speed and stopping distance test in normal brake condition at 120km/h TC2		OK		Ntobeko Ndlovu - 421595	Train
10347	A	Force [TT] SBK_BrakeDist = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10348	A	Release [TT] SBK_BrakeDist		OK		Ntobeko Ndlovu - 421595	Train
10349	A	Active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10350	A	With the Train Tracer, start to record the variables listed on Preparation topic above.		OK		Ntobeko Ndlovu - 421595	Train
10351	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 120 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10352	A	At 120km/h, keep the Master Controller in "MAX TRACTION" position accelerating the train up to a speed of 123km/h.		OK		Ntobeko Ndlovu - 421595	Train
10353	A	After reached the speed of 123km/h, set the Master Controller to "OFF" position until the Train reduces the speed to 120±2km/h and then set the Master to "MAX SERVICE BRAKE" position until the		OK		Ntobeko Ndlovu - 421595	Train

		train comes to a complete stop.					
10354	A	Stop the Train Tracer recording process.		OK		Ntobeko Ndlovu - 421595	Train
10355	R	Result Max [TT] SBK_BrakeDist : x <= 680		OK	632	Ntobeko Ndlovu - 421595	Train
10356	A	Check that the train reached a speed of 123km/h within approximately 4 seconds after reaching 120km/h.		OK		Ntobeko Ndlovu - 421595	Train
10357	R	Time to reach 123km/h from 120km/h is not higher than 4 seconds.		OK		Ntobeko Ndlovu - 421595	Train
10358	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template (Showing the acceleration from 120 to 123 km/h)		OK		Ntobeko Ndlovu - 421595	Train
10359	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train
10360	R	The mean deceleration rate must be at least 0,9m/s².		OK		Ntobeko Ndlovu - 421595	Train
10361	A	Remove active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10362	I	Stopping distance test in normal brake condition at 100km/h TC1		OK		Ntobeko Ndlovu - 421595	Train
10363	A	Force [TT] SBK_BrakeDist = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10364	A	Release [TT] SBK_BrakeDist		OK		Ntobeko Ndlovu - 421595	Train
10365	A	Active cab in TC1		OK		Ntobeko Ndlovu - 421595	Train
10366	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 100±2 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10367	A	Set the Master Controller to "OFF" position for 5 seconds and then to "MAX SERVICE BRAKE" position until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10368	R	Result Max [TT] SBK_BrakeDist : x <= 567		OK	361	Ntobeko Ndlovu - 421595	Train
10369	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template.		OK		Ntobeko Ndlovu - 421595	Train
10370	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train

10371	A	Remove active cab on TC1		OK		Ntobeko Ndlovu - 421595	Train
10372	I	Stopping distance test in normal brake condition at 100km/h TC2		OK		Ntobeko Ndlovu - 421595	Train
10373	A	Force [TT] SBK_BrakeDist = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10374	A	Release [TT] SBK_BrakeDist		OK		Ntobeko Ndlovu - 421595	Train
10375	A	Active cab in TC2		OK		Ntobeko Ndlovu - 421595	Train
10376	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 100±2 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10377	A	Set the Master Controller to "OFF" position for 5 seconds and then to "MAX SERVICE BRAKE" position until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10378	R	Result Max [TT] SBK_BrakeDist : x <= 567		OK	397	Ntobeko Ndlovu - 421595	Train
10379	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template.		OK		Ntobeko Ndlovu - 421595	Train
10380	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train
10381	A	Remove active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10382	I	Stopping distance test in degraded brake condition at 120km/h TC1		OK		Ntobeko Ndlovu - 421595	Train
10383	A	Active cab in TC1		OK		Ntobeko Ndlovu - 421595	Train
10384	I	Disabling the electrical braking in all motor cars.		OK		Ntobeko Ndlovu - 421595	Train
10385	A	Force [TT] (TBCU1)f55_b_br_auth = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10386	A	Force [TT] (TBCU2)f55_b_br_auth = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10387	A	Force [TT] (TBCU3)f55_b_br_auth = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10388	A	Force [TT] (TBCU4)f55_b_br_auth = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10389	R	Electrical braking is inhibited in all M cars		OK		Ntobeko Ndlovu - 421595	Train
10390	A	Force [TT] SBK_BrakeDist = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10391	A	Release [TT] SBK_BrakeDist		OK		Ntobeko Ndlovu - 421595	Train

10392	A	With the Train Tracer, start to record the variables listed on Preparation topic above.		OK		Ntobeko Ndlovu - 421595	Train
10393	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 120±2 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10394	A	Set the Master Controller to "OFF" position for 5 seconds and then to "MAX SERVICE BRAKE" position until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10395	A	Stop the Train Tracer recording process.		OK		Ntobeko Ndlovu - 421595	Train
10396	R	Result Max [TT] SBK_BrakeDist : x <= 680		OK	672	Ntobeko Ndlovu - 421595	Train
10397	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template.		OK		Ntobeko Ndlovu - 421595	Train
10398	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train
10399	R	The mean deceleration rate must be at least 0,9m/s².		OK		Ntobeko Ndlovu - 421595	Train
10400	I	Normalising the electrical braking on M cars		OK		Ntobeko Ndlovu - 421595	Train
10401	A	Put the direction selector switch in NEUTRAL position		OK		Ntobeko Ndlovu - 421595	Train
10402	A	Release [TT] (TBCU1)f55_b_br_auth		OK		Ntobeko Ndlovu - 421595	Train
10403	A	Release [TT] (TBCU2)f55_b_br_auth		OK		Ntobeko Ndlovu - 421595	Train
10404	A	Release [TT] (TBCU3)f55_b_br_auth		OK		Ntobeko Ndlovu - 421595	Train
10405	A	Release [TT] (TBCU4)f55_b_br_auth		OK		Ntobeko Ndlovu - 421595	Train
10406	A	Remove active cab on TC1		OK		Ntobeko Ndlovu - 421595	Train
10407	I	Stopping distance test in degraded brake condition at 120km/h TC2		OK		Ntobeko Ndlovu - 421595	Train
10408	A	Active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10409	I	Disabling the electrical braking in all motor cars.		OK		Ntobeko Ndlovu - 421595	Train
10410	A	Force [TT] (TBCU1)f55_b_br_auth = 0.0		OK		Ntobeko Ndlovu - 421595	Train

10411	A	Force [TT] (TBCU2)f55_b_br_auth = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10412	A	Force [TT] (TBCU3)f55_b_br_auth = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10413	A	Force [TT] (TBCU4)f55_b_br_auth = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10414	R	Electrical braking is inhibited in all M cars		OK		Ntobeko Ndlovu - 421595	Train
10415	A	Force [TT] SBK_BrakeDist = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10416	A	Release [TT] SBK_BrakeDist		OK		Ntobeko Ndlovu - 421595	Train
10417	A	With the Train Tracer, start to record the variables listed on Preparation topic above.		OK		Ntobeko Ndlovu - 421595	Train
10418	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 120±2 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10419	A	Set the Master Controller to "OFF" position for 5 seconds and then to "MAX SERVICE BRAKE" position until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10420	A	Stop the Train Tracer recording process.		OK		Ntobeko Ndlovu - 421595	Train
10421	R	Result Max [TT] SBK_BrakeDist : x <= 680		OK	575	Ntobeko Ndlovu - 421595	Train
10422	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template.		OK		Ntobeko Ndlovu - 421595	Train
10423	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train
10424	R	The mean deceleration rate must be at least 0,9m/s².		OK		Ntobeko Ndlovu - 421595	Train
10425	I	Normalizing the electrical braking on the Train.		OK		Ntobeko Ndlovu - 421595	Train
10426	A	Put the direction selector switch in NEUTRAL position		OK		Ntobeko Ndlovu - 421595	Train
10427	A	Release [TT] (TBCU1)f55_b_br_auth		OK		Ntobeko Ndlovu - 421595	Train
10428	A	Release [TT] (TBCU2)f55_b_br_auth		OK		Ntobeko Ndlovu - 421595	Train
10429	A	Release [TT] (TBCU3)f55_b_br_auth		OK		Ntobeko Ndlovu - 421595	Train
10430	A	Release [TT] (TBCU4)f55_b_br_auth		OK		Ntobeko Ndlovu - 421595	Train

10431	A	Remove active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10432	I	Stopping distance test in emergency brake condition at 120km/h TC1		OK		Ntobeko Ndlovu - 421595	Train
10433	A	Force [TT] SBK_BrakeDist = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10434	A	Release [TT] SBK_BrakeDist		OK		Ntobeko Ndlovu - 421595	Train
10435	A	With the Train Tracer, start to record the variables listed on Preparation topic above.		OK		Ntobeko Ndlovu - 421595	Train
10436	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 120±2 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10437	A	Set the Master Controller to "OFF" position for 5 seconds and then push the emergency brake mushroom button until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10438	A	Stop the Train Tracer recording process.		OK		Ntobeko Ndlovu - 421595	Train
10439	I	The stopping distance of the train in emergency brake condition shall not be greater than 480m.		OK		Ntobeko Ndlovu - 421595	Train
10440	R	Result Max [TT] SBK_BrakeDist : x <= 480		OK	467	Ntobeko Ndlovu - 421595	Train
10441	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template		OK		Ntobeko Ndlovu - 421595	Train
10442	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train
10443	R	The mean deceleration rate must be at least 1,3m/s².		OK		Ntobeko Ndlovu - 421595	Train
10444	A	Normalize the emergency brake mushroom button.		OK		Ntobeko Ndlovu - 421595	Train
10445	A	Reset the emergency brake setting the direction switch (S2.2) to "NEUTRAL" position and then to "FORWARD" position again.		OK		Ntobeko Ndlovu - 421595	Train
10446	R	Emergency brake released.		OK		Ntobeko Ndlovu - 421595	Train
10447	A	Remove active cab on TC1		OK		Ntobeko Ndlovu - 421595	Train

10448	I	Stopping distance test in emergency brake condition at 120km/h TC2		OK		Ntobeko Ndlovu - 421595	Train
10449	A	Force [TT] SBK_BrakeDist = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10450	A	Release [TT] SBK_BrakeDist		OK		Ntobeko Ndlovu - 421595	Train
10451	A	Active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10452	A	With the Train Tracer, start to record the variables listed on Preparation topic above.		OK		Ntobeko Ndlovu - 421595	Train
10453	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 120±2 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10454	A	Set the Master Controller to "OFF" position for 5 seconds and then push the emergency brake mushroom button until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10455	A	Stop the Train Tracer recording process.		OK		Ntobeko Ndlovu - 421595	Train
10456	I	The stopping distance of the train in emergency brake condition shall not be greater than 480m.		OK		Ntobeko Ndlovu - 421595	Train
10457	R	Result Max [TT] SBK_BrakeDist : x <= 480		OK	447	Ntobeko Ndlovu - 421595	Train
10458	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template		OK		Ntobeko Ndlovu - 421595	Train
10459	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train
10460	R	The mean deceleration rate must be at least 1,3m/s².		OK		Ntobeko Ndlovu - 421595	Train
10461	A	Normalize the emergency brake mushroom button.		OK		Ntobeko Ndlovu - 421595	Train
10462	A	Reset the emergency brake setting the direction switch (S2.2) to "NEUTRAL" position and then to "FORWARD" position again.		OK		Ntobeko Ndlovu - 421595	Train
10463	R	Emergency brake released.		OK		Ntobeko Ndlovu - 421595	Train
10464	A	Remove active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train

10465	I	Stopping distance test in emergency brake condition at 100km/h TC1		OK		Ntobeko Ndlovu - 421595	Train
10466	A	Force [TT] SBK_BrakeDist = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10467	A	Release [TT] SBK_BrakeDist		OK		Ntobeko Ndlovu - 421595	Train
10468	A	Active cab on TC1		OK		Ntobeko Ndlovu - 421595	Train
10469	A	With the Train Tracer, start to record the variables listed on Preparation topic above.		OK		Ntobeko Ndlovu - 421595	Train
10470	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 100±2 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10471	A	Set the Master Controller to "OFF" position for 5 seconds and then push the emergency brake mushroom button until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10472	I	The stopping distance of the train in emergency brake condition shall not be greater than 400m.		OK		Ntobeko Ndlovu - 421595	Train
10473	R	Result Max [TT] SBK_BrakeDist : x <= 400		OK	328	Ntobeko Ndlovu - 421595	Train
10474	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template		OK		Ntobeko Ndlovu - 421595	Train
10475	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train
10476	R	The mean deceleration rate must be at least 1,3m/s².		OK		Ntobeko Ndlovu - 421595	Train
10477	A	Release the emergency brake button 44S1		OK		Ntobeko Ndlovu - 421595	Train
10478	A	Reset the emergency brake by putting the direction switch in NEUTRAL position and again in FORWARD position		OK		Ntobeko Ndlovu - 421595	Train
10479	R	Emergency brake released		OK		Ntobeko Ndlovu - 421595	Train
10480	I	[PRASA-23-Val-3] - Coherence between the speed indicated on DDU screen and the speedometer		OK		Ntobeko Ndlovu - 421595	Train
10481	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 100 km/h.		OK		Ntobeko Ndlovu - 421595	Train

10482	A	Set the Master Controller to "OFF" position stabilizing the Train speed at 100 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10483	A	Compare the speed indicated on DDU screen with the speed indicated on speedometer.		OK		Ntobeko Ndlovu - 421595	Train
10484	R	Speed from DDU Read Undefined Value : x (km/h)		OK	100	Ntobeko Ndlovu - 421595	Train
10485	R	Speed from Speedometer Read Undefined Value : x (km/h)		OK	100	Ntobeko Ndlovu - 421595	Train
10486	I	The difference between both speed indication shall not be higher than 3 km/h		OK		Ntobeko Ndlovu - 421595	Train
10487	A	Set the Master Controller to "MAX SERVICE BRAKE" position until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10488	R	The train slows down and stopped smoothly without jolts.		OK		Ntobeko Ndlovu - 421595	Train
10489	A	Set the master controller to OFF position		OK		Ntobeko Ndlovu - 421595	Train
10490	A	Put direction switch in NEUTRAL position		OK		Ntobeko Ndlovu - 421595	Train
10491	A	Remove active cab on TC1		OK		Ntobeko Ndlovu - 421595	Train
10492	I	Stopping distance test in emergency brake condition at 100km/h TC2		OK		Ntobeko Ndlovu - 421595	Train
10493	A	Force [TT] SBK_BrakeDist = 0.0		OK		Ntobeko Ndlovu - 421595	Train
10494	A	Release [TT] SBK_BrakeDist		OK		Ntobeko Ndlovu - 421595	Train
10495	A	Active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10496	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 100 ± 2 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10497	A	Set the Master Controller to "OFF" position for 5 seconds and then push the emergency brake mushroom button until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10498	R	Result Max [TT] SBK_BrakeDist : x <= 400		OK	318	Ntobeko Ndlovu - 421595	Train
10499	A	Take a screenshot of the recorded variables from TrainTracer and paste on the Brake Test Results Template		OK		Ntobeko Ndlovu - 421595	Train

10500	A	Use the Deceleration Calculation Template to calculate the deceleration		OK		Ntobeko Ndlovu - 421595	Train
10501	R	The mean deceleration rate must be at least 1,3m/s².		OK		Ntobeko Ndlovu - 421595	Train
10502	A	Release the emergency brake button 44S1		OK		Ntobeko Ndlovu - 421595	Train
10503	A	Reset the emergency brake setting the direction switch (S2.2) to "NEUTRAL" position and then to "FORWARD" position again.		OK		Ntobeko Ndlovu - 421595	Train
10504	R	Emergency brake released.		OK		Ntobeko Ndlovu - 421595	Train
10505	I	[PRASA-23-Val-3] - Coherence between the speed indicated on DDU screen and the speedometer		OK		Ntobeko Ndlovu - 421595	Train
10506	A	Set the Master Controller to "MAX TRACTION" position and accelerate the train up to 100 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10507	A	Set the Master Controller to "OFF" position stabilizing the Train speed at 100 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10508	A	Compare the speed indicated on DDU screen with the speed indicated on speedometer.		OK		Ntobeko Ndlovu - 421595	Train
10509	R	Speed from DDU Read Undefined Value : x (km/h)		OK	100	Ntobeko Ndlovu - 421595	Train
10510	R	Speed from Speedometer Read Undefined Value : x (km/h)		OK	100	Ntobeko Ndlovu - 421595	Train
10511	R	The difference between both speed indication shall not be higher than 3 km/h.		OK		Ntobeko Ndlovu - 421595	Train
10512	A	Set the Master Controller to "MAX SERVICE BRAKE" position until the train comes to a complete stop.		OK		Ntobeko Ndlovu - 421595	Train
10513	R	The train slows down and stopped smoothly without jolts.		OK		Ntobeko Ndlovu - 421595	Train
10514	A	Remove the active cab on TC2		OK		Ntobeko Ndlovu - 421595	Train
10515	I	Events Review		OK		Ntobeko Ndlovu - 421595	Train
10516	A	On the DDU Event's screen, check if there are any events loaded		OK		Ntobeko Ndlovu - 421595	Train
10517	R	No Events have been loaded		OK		Ntobeko Ndlovu - 421595	Train

10518	I	If there are any faults which occurred during the test, please create an Event on AutoFIE for further investigation.		OK		Ntobeko Ndlovu - 421595	Train
10519	I	Train Odometer		OK		Ntobeko Ndlovu - 421595	Train
10520	R	Check the milage on the DDU maintenance screen, the value should be higher than the one recorded at the beginning on the test. Read Undefined Value : x (km)		OK	124	Ntobeko Ndlovu - 421595	Train
10521	I	Powerhour		OK		Ntobeko Ndlovu - 421595	Train
10522	R	Read Undefined Variable [TT] (MPU1)NET_CntrTMceUptimeValS		OK	204	Ntobeko Ndlovu - 421595	Train
10523	I	End of Test		OK		Ntobeko Ndlovu - 421595	Train

Section 3 – Report summaries

3.2 Results status

Test Instruction Sheet	Compliant	Incomplete	Non-compliant
Acceptance Test	X		

3.3 Tools used

Function	Tool name	Tool number	Next Calibration date

Vehicle	Equipment	Expected version	Version loaded
Train			