

X'TRAPOLIS MEGA

SUMMARY REPORT

Photo-not-contractual

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RELEASED

X'TRAPOLIS MEGA

Application: **PRASA**

Technical Modifications		Geometric tolerances		A4		N	
A0	Creation						
Index	Revision Notification no.						
Prepared		05/03/2025	K. NKOANA	Summary Report of open items from TS271 Routine and Acceptance Testing			
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		Date	Name				
		en					
				GIB0000007938		Rev.: A0	1/10

Table of Modifications

Rev	Date	Modifications Content	Writer
A0	05/03/2025	Creation	Kgomotso NKOANA

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Internal Validation

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1 INTRODUCTION

For the PRASA project Gibela has implemented an exhaustive test program to perform the static routine testing at vehicle and train level including the dynamic routine test schedules. After the handover of each car from production to testing, the train is progressively coupled to formulate a six-car trainset. In parallel to the coupling activities Vehicle Functional Stating Testing is performed individually on the six cars. Static testing is continued to Train Functional Level.

After the static tests have been performed, the Dynamic Test is done on a 1.2 km test track in the Dunnottar Dynamic Test Track to verify all the safety functions of the train up to 60 km/h. The train is then transported to Wolmerton Depot for the final high speed acceptance test and handover to the customer.

2 SCOPE

The purpose of this document is to summarize the test results of the different test schedules.

The complete test report for each test schedule including all the test steps with respect to the pass/fail criteria will be submitted.

3 TEST CONDITIONS

Vehicles Tested

TS271 is composed of vehicles:

- TC1# 01 20 271 1
- M4 # 01 20 271 2
- M1 # 01 20 271 3
- M2 # 01 20 271 4
- M3 # 01 20 271 5
- TC2 # 01 20 271 6

Test Schedule

The tests were performed following the Routine Test Schedules

- | | |
|---|----------------------|
| ➤ Vehicle Pre- Testing TC1 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing TC2 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M1 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M2 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M3 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M4 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Functional Testing TC1 (VFT) | GIB0000001462 rev D2 |
| ➤ Vehicle Functional Testing TC2 (VFT) | GIB0000001463 rev D1 |
| ➤ Vehicle Functional Testing M1 (VFT) | GIB0000001464 rev D2 |
| ➤ Vehicle Functional Testing M2 (VFT) | GIB0000001465 rev D2 |
| ➤ Vehicle Functional Testing M3 (VFT) | GIB0000001466 rev D1 |
| ➤ Vehicle Functional Testing M4 (VFT) | GIB0000001467 rev D1 |
| ➤ Train Functional Routine Static Testing (TFS) | GIB0000001271rev D0 |
| ➤ Train Functional Dynamic Testing (TFD) | GIB0000001029 rev D2 |
| ➤ Acceptance Test on Customer Track (ACT) | GIB0000000293 rev D3 |

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General test conditions

No specific ambient conditions were mandatory during testing.

Static and Dynamic Test location

The tests were conducted at the Gibela Dunnottar factory in South Africa

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Test participants

Last Name	First Name	Company	Occupation
NGUBANE	Lindani	Gibela	EPU Manager
MOCWAGOLE	Kealeboga	Gibela	EPU Manager
MERAPE	Mavis	Gibela	EPU Manager
ZULU	Vusumuzi	Gibela	EPU Manager
MABUNDA	Neliswa	Gibela	EPU Manager
MASONDO	Nhlakanipho	Gibela	EPU Manager
MCHUNU	Siphesihle	Gibela	Test Technician
SOKHELA	Celiwe	Gibela	Test Technician
MDLULI	Nokuzola	Gibela	Test Technician
DITLHAKANYANE	Paseka	Gibela	Test Technician
XULU	Sithembile	Gibela	Test Technician
BALISO	Gcobani	Gibela	Test Technician
SHINGA	Sthabile	Gibela	Test Technician
MABUNDZANE	Nick	Gibela	Test Technician
GUMEDE	Carol	Gibela	Test Technician
MTHEMBU	Mvelo	Gibela	Test Technician
MILANI	Philemon	Gibela	Test Technician
KHOSA	Tshembhani	Gibela	Test Technician
TSELA	Impi	Gibela	Test Technician
MABOWA	Anthonia	Gibela	Test Technician
FUNYUFUNYU	Mbavhalelo	Gibela	Test Technician
CHIRWA	NQOBILE	Gibela	Test Technician
SIBANYONI	Sizwe	Gibela	Test Technician
TIVANI	Angel	Gibela	Test Technician
SEKGOLOLO	Alleta	Gibela	Test Technician
SITHOLE	Mpumelelo	Gibela	Test Technician
SITHOLE	Mlungisi	Gibela	Test Technician
KGATITSWE	Goitsemodimo	Gibela	Test Technician
MKHWA	Sinazo	Gibela	Test Technician
MTHOMBENI	Tebogo	Gibela	Test Technician
MPHAHLELE	Mphato	Gibela	Test Technician
MTOLO	Sicelo	Gibela	Test Technician
NGUBANE	Dilikani	Gibela	Test Technician
NTULI	Amanda	Gibela	Test Technician

Routine test Period

The routine test was performed from the 22nd of February 2025 until the 06th of March 2025 in Dunnottar.

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Acceptance Test location

High-Speed Acceptance Test on the Customer Main Line (De-Wildt), The dynamic performance to be validated to a maximum speed of 60km/h inclusive, ensuring compliance to service, emergency and degraded mode braking performance.

Acceptance Test participants

Last Name	First Name	Company	Position
TBA			

Acceptance Test period

The High speed Acceptance test to be performed in Wolmerton, Customer Main Line (De-Wildt).

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4 TEST RESULTS

Vehicle Pre-Testing

RTR Vehicle Pre-Testing TS271 TC1 Report	GIB0000007933 rev A0
RTR Vehicle Pre-Testing TS271 TC2 Report	GIB0000007934 rev A0
RTR Vehicle Pre-Testing TS271 M1 Report	GIB0000007929 rev A0
RTR Vehicle Pre-Testing TS271 M2 Report	GIB0000007930 rev A0
RTR Vehicle Pre-Testing TS271 M3 Report	GIB0000007931 rev A0
RTR Vehicle Pre-Testing TS271 M4 Report	GIB0000007932 rev A0
All test steps were performed and passed successfully	

Vehicle Functional Testing

RTR Vehicle Functional Static Testing TS271 TC1 Report	GIB0000007927 rev A0
RTR Vehicle Functional Static Testing TS271 TC2 Report	GIB0000007928 rev A0
RTR Vehicle Functional Static Testing TS271 M1 Report	GIB0000007923 rev A0
RTR Vehicle Functional Static Testing TS271 M2 Report	GIB0000007924 rev A0
RTR Vehicle Functional Static Testing TS271 M3 Report	GIB0000007925 rev A0
RTR Vehicle Functional Static Testing TS271 M4 Report	GIB0000007926 rev A0
All test steps were performed and passed successfully	

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Train Functional Static Testing

RTR Train Functional Static Testing TS271 Report GIB0000007935 rev A0

All test steps were performed and passed successfully with an exception of Train ground communication, the confirmation of train connectivity to Train tracer CFM. The Netbox sim card is not issued.

Train Functional Dynamic Testing

RTR Train Functional Dynamic Testing TS271 Report GIB0000007936 rev A0

All test steps were performed and passed successfully

Acceptance Test on Customer Track

RTR TS271 Acceptance Test on Customer Track test report GIB0000007937 rev A0

All routine (works) tests have been performed and completed successfully. The Acceptance Test on customer track that covers the high speed 120km/h and UHF radio functional tests will be performed in Wolmerton.

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5 CONCLUSION AND RECOMMENDATION

All routine (works) tests have been performed and completed successfully with an exception of

1. Train ground communication, a test that covers the confirmation of train connectivity to Train tracer CFM. The Netbox sim card is not issued.

The Acceptance Test on customer track that covers the high speed 120km/h and UHF radio functional tests will be performed in Wolmerton.

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