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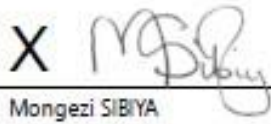
**Table of Modifications**


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| Rev | Date       | Modifications Content | Writer          |
|-----|------------|-----------------------|-----------------|
| A0  | 10/04/2025 | Creation              | Kgomotso NKOANA |

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## Internal Validation

|          | Name                       | Function                       | Date       | Signature   |
|----------|----------------------------|--------------------------------|------------|---|
| Writer   | <b>Kgomotso<br/>NKOANA</b> | <b>Test Expert</b>             | 10/04/2025 | X <br>Kgomotso NKOANA<br>Test Expert        |
| Checker  | <b>Sifiso<br/>LUKHELE</b>  | <b>Serial Test<br/>Manager</b> | 10/04/2025 | X <br>Sifiso LUKHELE<br>Serial Test Manager |
| Approver | <b>Mongezi<br/>SIBIYA</b>  | <b>T&amp;C HoD</b>             | 10/04/2025 | X <br>Mongezi SIBIYA<br>T&C HoD           |

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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


TS277 is composed of vehicles:

- TC1# 01 20 277 1
- M4 # 01 20 277 2
- M1 # 01 20 277 3
- M2 # 01 20 277 4
- M3 # 01 20 277 5
- TC2 # 01 20 277 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) | GIB0000001273rev 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 27<sup>th</sup> of March 2025 until the 10<sup>TH</sup> of April 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 TS277 TC1 Report GIB0000008029 rev A0  
 RTR Vehicle Pre-Testing TS277 TC2 Report GIB0000008030 rev A0  
 RTR Vehicle Pre-Testing TS277 M1 Report GIB0000008025 rev A0  
 RTR Vehicle Pre-Testing TS277 M2 Report GIB0000008026 rev A0  
 RTR Vehicle Pre-Testing TS277 M3 Report GIB0000008027 rev A0  
 RTR Vehicle Pre-Testing TS277 M4 Report GIB0000008028 rev A0  
 All test steps were performed and passed successfully

### Vehicle Functional Testing

RTR Vehicle Functional Static Testing TS277 TC1 Report GIB0000008023 rev A0  
 RTR Vehicle Functional Static Testing TS277 TC2 Report GIB0000008024 rev A0  
 RTR Vehicle Functional Static Testing TS277 M1 Report GIB0000008019 rev A0  
 RTR Vehicle Functional Static Testing TS277 M2 Report GIB0000008020 rev A0  
 RTR Vehicle Functional Static Testing TS277 M3 Report GIB0000008021 rev A0  
 RTR Vehicle Functional Static Testing TS277 M4 Report GIB0000008022 rev A0  
 All test steps were performed and passed successfully

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### Train Functional Static Testing

RTR Train Functional Static Testing TS277 Report GIB0000008031 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 TS277 Report GIB0000008032 rev A0

All test steps were performed and passed successfully

### Acceptance Test on Customer Track

RTR TS277 Acceptance Test on Customer Track test report GIB0000008033 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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