



REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF CORRECTIONAL SERVICES

TECHNICAL SPECIFICATION
FOR THE
MAINTENANCE OF DIESEL GENERATORS
AT CORRECTIONAL CENTRES AND FACILITIES

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1.2 Approval and Sign-Off

Role	Name	Signature	Date
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SECTION 1: PURPOSE, SCOPE AND BACKGROUND

1.1 Purpose

This Technical Specification (TS) establishes the minimum standards, requirements, and procedures for the planned and corrective maintenance of diesel-powered standby generators installed at correctional centres and facilities occupied by the Department of Correctional Services (DCS). The specification is issued in line with the Department of Public Works and Infrastructure (DPWI) Public Works Guidelines and Standard Specifications, which govern the maintenance of government-owned and leased immovable assets. The document is intended to guide service providers appointed through IDT procurement processes on behalf of DCS, and to ensure uniformity, reliability, and regulatory compliance across all generator maintenance activities at DCS facilities.

1.2 Scope of Application

This specification applies specifically to the diesel generators installed at the following eight (8) DCS correctional facilities, maintained on behalf of DCS under this contract:

No.	Correctional Centre	Management Area	Province
1	Embongweni Maximum Correctional Centre	Kokstad Management Area	KwaZulu-Natal
2	Kokstad Medium B Correctional Centre	Kokstad Management Area	KwaZulu-Natal
3	Napierville Medium A Correctional Centre	Pietermaritzburg Management Area	KwaZulu-Natal
4	Qalakabusha Correctional Centre	Empangeni Management Area	KwaZulu-Natal
5	Tswelopele Correctional Centre	Kimberly Management Area	Northern Cape
6	Standerton Correctional Centre	Standerton Management Area	Mpumalanga
7	Gqeberha North End Correctional Centre	St Albans Management Area	Eastern Cape
8	Tzaneen Correctional Centre	Tzaneen Management Area	Limpopo

The facilities listed above span four provinces and five DCS Management Areas. The specification covers all diesel generators at these sites regardless of rated capacity, from small standby units (below 50 kVA) to large mission-critical systems (above 500 kVA). All maintenance activities shall be coordinated through the respective IDT Regional Office responsible for each facility.

1.3 Background and Legislative Context

Diesel generators constitute critical infrastructure at DCS correctional facilities. Uninterrupted power is essential to maintain perimeter security systems, electronic access control, CCTV surveillance, cell locking mechanisms, and emergency lighting. Power failures present acute security risks including the possibility of escapes and breakdown of containment. Maintenance activities under this specification are therefore treated as priority obligations in accordance with the

DCS mandate under the Correctional Services Act (No. 111 of 1998) and the minimum standards prescribed by DPWI Public Works Guidelines.

Maintenance activities under this specification shall be performed in compliance with the following legislative and regulatory framework:

- Occupational Health and Safety Act (No. 85 of 1993) and its Regulations, including the Electrical Machinery Regulations and the General Machinery Regulations
- National Building Regulations and Building Standards Act (No. 103 of 1977)
- Government Immovable Asset Management Act (GIAMA, No. 19 of 2007)
- Public Finance Management Act (PFMA, No. 1 of 1999)
- SANS 10142-1: Wiring of Premises (South African National Standard)
- SANS 10089-3: Storage and Handling of Flammable Liquids (diesel fuel storage)
- NRCS and SABS standards applicable to generator sets
- National Environmental Management Act (NEMA, No. 107 of 1998) for fuel spill prevention
- Preferential Procurement Policy Framework Act (PPPFA, No. 5 of 2000)

1.4 Definitions and Abbreviations

Term / Abbreviation	Definition
ATS	Automatic Transfer Switch
AVR	Automatic Voltage Regulator
DPWI	Department of Correctional Services (DCS) Department of Public Works and Infrastructure (DPWI)
ECM	Engine Control Module
kVA	Kilovolt-Ampere (unit of apparent power)
kW	Kilowatt (unit of active power)
OEM	Original Equipment Manufacturer
PF	Power Factor
PPM	Planned Preventive Maintenance
SANS	South African National Standard
SLA	Service Level Agreement
UPS	Uninterruptible Power Supply
VOC	Volatile Organic Compound (relevant to fuel storage)
WO	Work Order

SECTION 2: SERVICE PROVIDER QUALIFICATIONS AND REQUIREMENTS

2.1 Registration and Accreditation

The appointed service provider shall, for the duration of the contract, maintain valid registration and accreditation with all applicable bodies. Documentation shall be submitted with each tender submission and upon each annual renewal:

- Registration with the Companies and Intellectual Property Commission (CIPC)
- Valid Tax Clearance Certificate or Tax Compliance Status Pin from SARS
- B-BBEE Compliance Certificate from an accredited verification agency
- Registration with the Engineering Council of South Africa (ECSA) as an Engineering firm (where required by the size of the installation)
- Registration with the Department of Labour as an Employer
- Proof of Professional Indemnity insurance (minimum R5 million per occurrence)
- Proof of Public Liability insurance (minimum R10 million per occurrence)

2.2 Technical Personnel Requirements

The service provider shall ensure that all personnel deployed on DCS and DPWI sites possess the minimum qualifications and certifications stipulated below:

Role	Minimum Qualification	Certification / Licence
Lead Technician	N6 Electrical Engineering or Trade Test (Electrician/Millwright)	Wireman's Licence (HV or LV as applicable); OHS Act First Aid Level 1
Diesel Mechanic	Trade Test: Diesel Mechanic (NAMB accredited)	OEM training certificate (Perkins, Cummins, FG Wilson, Volvo, Baudouin or equivalent)
Site Supervisor	National Diploma: Electrical Engineering (minimum)	SACPCMP registration or ECSA registration; Construction Regulations Compliance Certificate
Control Panel Technician	N6 or equivalent in electronics/instrumentation	Deepsea, ComAp, or equivalent controller manufacturer certification

2.3 Health, Safety and Environmental (HSE) Requirements

The service provider shall develop, submit, and implement a comprehensive Health, Safety and Environmental Plan (HSEP) prior to commencement of any maintenance activity. The HSEP shall comply with all requirements of the OHS Act (85 of 1993) and its Regulations and shall include:

- A site-specific Risk Assessment and Method Statement (RAMS) for all maintenance tasks
- Emergency Response Plan (ERP) addressing fire, fuel spills, and electrocution
- Personal Protective Equipment (PPE) register and enforcement policy
- Toolbox talk records (to be maintained on-site and submitted with reports)
- Incident and near-miss reporting procedure
- Fuel spill containment and environmental management plan
- Confined Space Entry procedures (where applicable to underground installations)

The IDT or its appointed Health and Safety Agent, in consultation with the DCS Chief Security Officer, reserves the right to conduct unannounced HSE audits at DCS facilities. Non-compliance may result in work stoppage and penalty clauses as stipulated in the SLA.

SECTION 3: MAINTENANCE PROGRAMME AND REQUIREMENTS

3.1 Categories of Maintenance

All maintenance activities shall be classified under one of the following categories:

- **Planned Preventive Maintenance (PPM):** Scheduled inspections and services performed at defined intervals, irrespective of generator condition, to prevent failure
- **Corrective Maintenance (CM):** Unscheduled maintenance performed in response to an identified defect, fault, or failure
- **Condition-Based Monitoring (CBM):** Continuous or periodic assessment of generator health parameters to predict and pre-empt failure
- **Emergency Call-Out Maintenance:** Urgent response to a generator failure during or after hours, as defined in the SLA

3.2 Planned Preventive Maintenance Schedule

The service provider shall execute PPM activities at the intervals specified in the tables below. All intervals are based on operating hours or calendar periods, whichever occurs first. The OEM service manual shall take precedence where manufacturer intervals are more stringent.

3.2.1 Weekly Inspections

The following inspections shall be completed by a qualified technician on a weekly basis (every 7 calendar days). All findings shall be recorded in the Generator Log Book maintained on-site:

No.	Inspection Activity	Acceptance Criterion	Action if Non-Conformant
1	Visual inspection of entire generator set for leaks (oil, fuel, coolant)	No visible leaks	Log and report; rectify within 48 hours
2	Check engine oil level (dipstick)	Between MIN and MAX marks	Top up with OEM-specified grade
3	Check coolant level in expansion tank	At correct operating level	Top up with approved coolant mix
4	Check fuel level in day tank and main storage tank	Min 75% full (day tank)	Arrange fuel delivery
5	Inspect battery terminals for corrosion and connections	Clean, tight, no corrosion	Clean and treat; replace if necessary
6	Inspect battery charger display – confirm charging	Charger ON; voltage correct	Report fault; replace charger if defective
7	Check air filter indicator / restriction gauge	Green zone	Replace filter if red zone
8	Check control panel for fault codes and alarms	No active alarms	Investigate and resolve all active alarms

9	Inspect ATS panel: confirm position (Main/Gen/Off)	Main supply on MAIN position	Investigate if in incorrect position
10	Check exhaust system for unusual colour (smoke)	Clear to light grey exhaust	Investigate cause of blue/black/white smoke

3.2.2 Monthly Maintenance (250 Operating Hours or Monthly)

In addition to weekly inspection activities, the following tasks shall be completed monthly:

- Perform a 30-minute loaded test run (minimum 30% rated load) and record all operating parameters
- Record and log: oil pressure, coolant temperature, battery voltage (on load and off load), output voltage (L-L and L-N), output current per phase, frequency, and load kW and kVA
- Inspect all flexible hoses, clamps, and fuel lines for condition and security
- Check all electrical connections and terminal blocks in main control panel and ATS for tightness
- Inspect exhaust system components, flexible bellows, and muffler for corrosion and leaks
- Inspect fuel storage tank(s) for corrosion, water ingress, and structural integrity
- Check generator room ventilation: confirm louvres are operational and not blocked
- Test all generator alarms and shutdown functions (simulated activation)
- Inspect and clean air filter pre-cleaner (where fitted)
- Lubricate all greasing points per the OEM lubrication schedule

3.2.3 Six-Monthly Maintenance Service (1 000 Operating Hours or Six-Monthly)

The six-monthly service shall constitute a comprehensive inspection and service and shall include all monthly tasks plus the following:

- Engine oil and oil filter replacement (OEM-specified grade and specification)
- Fuel filter replacement (primary and secondary)
- Fuel system bleeding and priming where required
- Coolant system inspection: check antifreeze concentration (freeze point and boil point), pH, and inhibitor levels; top up or replace coolant as indicated
- Inspection and cleaning of the radiator core and fins; chemical flush if required
- Fan belt (drive belt) inspection: check tension, wear, glazing, and cracking; replace as necessary
- Battery load test using calibrated battery tester; replace batteries not meeting OEM specification
- Air filter element replacement
- Full load bank test at rated kVA for minimum 2 hours; record all parameters every 30 minutes
- Thermographic survey of all electrical connections and busbar connections (infrared camera)
- Torque check of critical fasteners per OEM specification
- ATS full transfer test: simulate loss of mains supply, confirm auto-transfer and auto-retransfer
- Calibration check of all instruments, meters, and sensors on the control panel
- Submit six-monthly maintenance report to DPWI and the DCS Head of Physical Resources Management within 5 working days of completion

3.2.4 Annual Major Overhaul (2 000 Operating Hours or Annually)

The annual major service shall encompass all six-monthly service tasks plus the following additional requirements:

- Injector testing, calibration, and cleaning (or replacement if below OEM specification)
- Valve clearance adjustment (where applicable to engine type)
- Cylinder compression test and recording
- Turbocharger inspection: check for shaft play, oil seal condition, and impeller condition
- Inspection and testing of the alternator: insulation resistance (Megger) test, winding resistance check, AVR calibration, and bearing condition assessment
- Inspection and testing of circuit breakers: mechanical operation, trip mechanism function, and insulation resistance
- Inspection of all earthing and bonding conductors, including earth electrode resistance test (earth spike test)
- Full calibration of all protection relays in the ATS and main distribution board
- Oil analysis (engine oil sample to accredited laboratory) and submit results with annual report
- Review and update of the Generator Asset Register and maintenance history file
- Submit comprehensive annual inspection and maintenance report including recommendations for capital expenditure and replacement

SECTION 4: FUEL MANAGEMENT AND STORAGE

4.1 Fuel Supply and Quality Requirements

All diesel fuel supplied and used in DCS facility generators shall comply with the following specifications:

- SANS 342 (Automotive diesel fuel) with a minimum cetane number of 51
- Sulphur content not exceeding 10 mg/kg (Ultra-Low Sulphur Diesel – ULSD, 10ppm) where required by environmental regulations
- Free from water, biological contamination, and particulate matter
- Fuel quality certificates from the supplier shall be retained on file

4.2 Fuel Storage Requirements

All diesel storage installations shall comply with SANS 10089-3 (The handling, storage, distribution and maintenance of petroleum products in fixed bulk installations). Key requirements include:

- All above-ground tanks shall be fitted with secondary containment bunding capable of containing 110% of the tank volume
- Underground tanks shall be double-skinned with leak detection monitoring
- Tank fill points shall be labelled and fitted with lockable caps
- All fuel tanks shall be fitted with level indicators and high-level alarms
- Fuel delivery records shall be maintained, including supplier, quantity, delivery date, and invoice number

4.3 Fuel Maintenance Activities

As part of the PPM programme, the service provider shall undertake the following fuel-related maintenance activities:

- Monthly: Check fuel levels and record in log book; arrange re-supply to maintain minimum 75% level in day tank
- Six-monthly: Drain and inspect day tank sumps for water and sludge accumulation; remove all contamination
- Annually: Drain main bulk tank to sump level and pump out accumulated water and sludge; test fuel sample for contamination
- Biannually (or as required): Add approved biocide and fuel treatment where microbial contamination is detected
- All fuel disposal shall comply with NEMA and the Hazardous Substances Act

SECTION 5: REPORTING, DOCUMENTATION AND RECORD KEEPING

5.1 Generator Log Book

A site-based Generator Log Book (physical hardcopy) shall be maintained at each generator installation. The log book shall record:

- All start and stop times (automatic and manual)
- Operating hours at each service visit
- All maintenance activities performed with date, time, technician name, and signature
- Fuel deliveries: date, quantity in litres, and invoice reference
- All faults, alarms, and corrective actions
- Test run parameters and results

5.2 Maintenance Reports

The service provider shall submit the following reports to the DPWI Facilities Manager, the DPWI Regional Director, and the DCS Head: Physical Resources Management (or designated delegate):

Report Type	Frequency / Trigger	Submission Deadline
Weekly Inspection Report	Weekly	By close of business each Friday
Monthly Test Run Report	Monthly	Within 3 working days of test
Six-Monthly Service Report	Six-monthly	Within 5 working days of completion
Annual Major Overhaul Report	Annually	Within 10 working days of completion
Corrective Maintenance / Call-Out Report	After each corrective job	Within 24 hours of job completion
Incident Report (accident, fuel spill, fire)	Immediately upon occurrence	Verbally within 1 hour; written within 24 hours

5.3 Asset Register and Maintenance History

The service provider shall maintain a comprehensive digital asset register for each generator under its care. The register shall include, as a minimum:

- Generator make, model, serial number, and kVA rating
- Year of manufacture and date of installation
- Physical location and building reference number
- Engine make, model, and serial number
- Alternator make, model, and serial number
- ATS make, model, and rating
- Control panel type and firmware version
- Cumulative operating hours (updated at each visit)
- Complete maintenance and repair history
- Fuel consumption records
- Outstanding defects and capital expenditure recommendations

SECTION 6: EMERGENCY CALL-OUT AND RESPONSE TIMES

6.1 Response Time Requirements

The service provider shall maintain a 24-hour, 7-day emergency call-out capability. The following response time matrix shall apply. Failure to meet response times shall attract penalty clauses as defined in the SLA:

Priority	Scenario / Trigger	Response Time (on-site)	Resolution Target
Priority 1 – Critical	Generator failure at a hospital, detention facility, or critical security installation	2 hours (day or night)	4 hours or temporary standby unit deployed
Priority 2 – Urgent	Generator failure at a DCS regional or head office, or a medium-security correctional centre, during business hours	4 hours	8 hours
Priority 3 – Routine	Minor fault or defect not causing total failure; generator operational but with alarm	Next business day	3 working days

6.2 Call-Out Procedure

1. The Facilities Manager or Building Manager shall contact the service provider's 24-hour emergency control room.
2. The service provider shall acknowledge receipt of the call-out within 30 minutes and confirm estimated arrival time.
3. Upon arrival, the technician shall sign in at the security desk and report to the Facilities Manager before commencing work.
4. Upon completion, the technician shall provide a verbal briefing to the Facilities Manager and obtain a completion signature.
5. A written Corrective Maintenance Report shall be submitted within 24 hours.

SECTION 7: PERFORMANCE STANDARDS AND PENALTY FRAMEWORK

7.1 Key Performance Indicators (KPIs)

KPI	Minimum Standard	Measurement Method
PPM Completion Rate	100% of scheduled visits completed on time	Monthly maintenance schedule vs. actual
Generator Availability (after maintenance)	≥ 98% uptime for Priority 1 sites	Operating log vs. downtime records
Emergency Response: Priority 1	On-site within 2 hours, 100% of incidents	Call log vs. arrival time records
Emergency Response: Priority 2	On-site within 4 hours, 95% of incidents	Call log vs. arrival time records
Report Submission Compliance	100% of reports submitted within stipulated timeframes	Report register vs. submission dates
Repeat Failures (same fault within 30 days)	Zero repeat failures	Corrective maintenance log
OHS Incidents	Zero lost-time injuries; all incidents reported within 24 hours	Incident register

7.2 Penalty Provisions

The following penalty provisions shall apply and will be deducted from the monthly invoice for the period in which the non-compliance occurred. Penalties are cumulative and do not limit DPWI's right to terminate the contract for cause:

- Failure to complete a scheduled PPM visit: R 2 500 per visit per generator
- Failure to submit a report within the stipulated timeframe: R 500 per calendar day late
- Failure to meet Priority 1 emergency response time: R 5 000 per incident
- Failure to meet Priority 2 emergency response time: R 2 000 per incident
- Repeat failure (same fault) within 30 days: All repair costs borne by service provider, plus R 3 000 penalty
- Deployment of unqualified or uncertified personnel: R 5 000 per person per day; immediate removal from site required
- HSE non-compliance resulting in a lost-time injury: R 10 000 plus cost of investigation

7.3 Quarterly Performance Review

The DPWI Facilities Manager shall convene a quarterly performance review meeting with the service provider. DCS shall be represented by the Head: Physical Resources Management or delegate. The meeting shall review all KPIs against actual performance, discuss outstanding defects and capital replacement requirements, review the status of all Work Orders, and address any disputes or grievances. Minutes shall be kept and circulated within 5 working days.

SECTION 8: SPARE PARTS, MATERIALS AND TOOLS

8.1 Minimum Spare Parts Inventory

The service provider shall maintain a minimum inventory of spare parts sufficient to ensure timely maintenance and emergency repairs without delay. The following minimum stock shall be maintained at all times:

Spare Part / Consumable	Minimum Stock Quantity	Applicable Generator Brands
Engine oil filters (OEM-specified per brand)	5 per generator model on contract	All brands
Fuel filters (primary and secondary)	5 sets per generator model	All brands
Air filter elements	3 per generator model	All brands
Drive belts (alternator / fan belt)	2 per generator model	All brands
Battery sets (matched OEM specification)	1 set per 5 generators	All brands
Coolant (approved mix)	50 litres	All brands
Engine oil (OEM-specified grade)	100 litres per grade in use	All brands
Fuel pump diaphragm / transfer pump kit	2 per engine type	As applicable
AVR (Automatic Voltage Regulator)	1 per alternator brand in fleet	Leroy Somer, Stamford, Mecc Alte
Control panel fuses (all ratings in use)	Minimum 10 of each rating	All brands

8.2 Materials and Parts Approval

All replacement parts shall be sourced from the following approved sources, in order of preference:

6. Genuine OEM (Original Equipment Manufacturer) parts obtained from authorised OEM distributors
7. OEM-approved equivalent parts accompanied by a certificate of conformity
8. Third-party equivalent parts: may only be used with the prior written approval of the DPWI Facilities Manager and the DCS Head: Physical Resources Management, and must be accompanied by a quality certificate

The use of sub-standard, counterfeit, or unapproved parts is expressly prohibited and will constitute a material breach of the SLA.

8.3 Minimum Test Equipment Requirements

The service provider shall maintain all test equipment required to perform the services specified herein. Equipment shall be calibrated by an accredited calibration laboratory with valid calibration certificates available for inspection. Minimum required equipment includes:

- Insulation resistance tester (Megohmmeter) – calibrated, minimum 5 kV test voltage
- Clamp-on power quality analyser (measuring voltage, current, frequency, kW, kVA, PF, THD)
- Earth resistance tester (three-point method)
- Battery conductance/load tester

- Digital multimeter (CAT III rated minimum)
- Thermographic infrared camera ($\leq 0.1^{\circ}\text{C}$ sensitivity)
- Diesel injector test bench (at the service provider's workshop)
- Calibrated torque wrenches (full range applicable to OEM specifications)
- Compression tester (engine-type appropriate)
- Exhaust gas analyser (CO, CO₂, NO_x, opacity)

SECTION 9: SPECIAL CONDITIONS AND GENERAL REQUIREMENTS

9.1 Security and Access Control

All service provider personnel accessing DCS correctional facilities and other DCS-occupied buildings shall comply with the following additional security requirements, over and above standard DPWI access protocols:

- All personnel shall have valid SAPS clearance certificates, and shall additionally undergo DCS security vetting as prescribed by the DCS National Head of Corrections Security, prior to first site access. No person with a criminal record shall be permitted access to a correctional centre
- Personnel shall carry valid photo identification and service provider appointment letters at all times on site
- Access to restricted areas shall be coordinated with the Building/Facilities Manager and security officer
- All vehicles and equipment entering the facility are subject to search
- No photography of classified or secure areas shall be permitted

9.2 Environmental Requirements

The service provider shall manage all environmental impacts of maintenance activities in accordance with NEMA and the following requirements:

- No used oil, coolant, filters, or fuel shall be discharged to stormwater drains, sewers, or soil
- All used oil and filter waste shall be disposed of through a registered and licenced waste management service provider; disposal certificates shall be submitted with the quarterly report
- Drip trays shall be placed under all generator sets during any oil change or fuel system work
- Any accidental fuel or oil spill shall be reported immediately and remediated in accordance with the site Emergency Response Plan

9.3 Warranty Obligations

The service provider shall warrant all maintenance work and replacement parts as follows:

- Workmanship warranty: 90 days from the date of completion of the work
- Parts warranty: as per OEM warranty terms, but not less than 12 months from date of installation
- During the warranty period, the service provider shall rectify any defect attributable to its workmanship or materials at no additional cost to DPWI or DCS

9.4 Intellectual Property and Confidentiality

The service provider shall treat all information relating to DCS facilities and DPWI installations as classified and confidential. This includes, but is not limited to: facility layouts, security system configurations, inmate population data, security schedules, access control arrangements, and CCTV coverage. No information shall be disclosed to third parties without the prior written consent of both the National Commissioner of Correctional Services and the Director-General of DPWI. Breach of this clause may constitute an offence under the Correctional Services Act (No. 111 of 1998) and the Protection of State Information Act.

9.5 BBEE and Preferential Procurement

The service provider shall comply with all applicable provisions of the Preferential Procurement Policy Framework Act (PPPFA, No. 5 of 2000) and its Regulations. The service provider shall demonstrate active sub-contracting to qualifying small enterprises and enterprises owned by historically disadvantaged individuals, in accordance with the bid evaluation criteria. Compliance shall be reported quarterly.

SECTION 10: ANNEXURES

Annexure A: Generator Inspection and Test Run Record

Parameter	Recorded Value	Acceptance Range / Criterion
Site / Building Name		
Generator Asset No. / Serial No.		
Date of Test		
Technician Name and Signature		
Engine Hours (meter reading)		Record actual reading
Fuel Level at Start (%)		≥ 75% (day tank)
Battery Voltage (no load)		12.4 – 12.8 V (12V system)
Battery Voltage (cranking)		> 10.5 V (12V system)
Oil Pressure (idle)		Per OEM specification
Oil Pressure (rated speed)		Per OEM specification
Coolant Temperature (stabilised)		80 – 95°C (typical)
Output Voltage L1-L2 (V)		398 – 415 V (LV 400V system)
Output Voltage L2-L3 (V)		398 – 415 V
Output Voltage L3-L1 (V)		398 – 415 V
Output Current L1 (A)		≤ rated current
Output Current L2 (A)		≤ rated current
Output Current L3 (A)		≤ rated current
Frequency (Hz)		49.5 – 50.5 Hz
Power Factor		Per connected load
Load (kW / kVA)		≥ 30% rated load for test run
ATS Transfer Time (seconds)		< 10 seconds (DCS/DPWI mandatory standard for correctional facilities)
ATS Retransfer Time (seconds)		Per site setting (typically 3 – 5 min)
Active Alarms at End of Test		None
General Observations / Defects Found		

Annexure B: Corrective Maintenance / Call-Out Report Template

Field	Details
Work Order Number	
Site / Building Name and Region	
Generator Asset Number	
Date and Time of Call-Out Notification	
Date and Time of Arrival on Site	
Priority Classification	Priority 1 / 2 / 3
Fault Description (as reported)	
Root Cause Analysis	
Work Performed	
Parts Replaced (part no. and quantity)	
Date and Time of Generator Return to Service	
Total Duration of Outage	
Technician Name and Signature	
Facilities Manager Signature	
Recommendations / Follow-up Actions Required	

Annexure C: References and Standards

The following standards and references are incorporated into this specification by reference:

- SANS 10142-1:2017 – The wiring of premises. Part 1: Low-voltage installations
- SANS 10089-3 – The handling, storage, distribution and maintenance of petroleum products in fixed bulk installations
- SANS 1853 – Diesel engines for stationary use
- ISO 8528 – Reciprocating internal combustion engine driven alternating current generating sets
- IEC 60034 – Rotating electrical machines
- IEC 61439 – Low-voltage switchgear and controlgear assemblies
- DPWI Standard Specifications for Electrical Installations (current edition) Correctional Services Act (No. 111 of 1998) DCS Policy on Physical Resources Management (current edition) DCS Security Policy Framework (current edition)
- OHS Act (85 of 1993) and all applicable Regulations
- GIAMA (No. 19 of 2007) – Government Immovable Asset Management Act
- PFMA (No. 1 of 1999) – Public Finance Management Act
- PPPFA (No. 5 of 2000) – Preferential Procurement Policy Framework Act

END OF DOCUMENT

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