

Power Transformers Pretoria	SUBJECT	DOCUMENT No. 1
	ACTIVITY PROFILE: Plant Engineer – GMR 2.1	REVISION No. 00
		WRITTEN BY: DL
		APPROVED AND DATED: 2026/03/16

1.0 SCOPE

Covers all functions, duties and responsibilities related to the Plant Engineer – GMR 2.1 role within the Maintenance Department.

2.0 PURPOSE

To provide professional engineering and technical leadership in the management, maintenance, reliability and safe operation of the plant, machinery, equipment and associated infrastructure at the site. The Plant Engineer will be responsible for ensuring that the plant is operated and maintained in a safe, reliable, efficient and legally compliant manner, while supporting production objectives, continuous improvement and the long-term sustainability of the facility. The incumbent will be formally appointed as the GMR 2.1 responsible person for the plant and will assume the applicable statutory duties and responsibilities associated with this appointment in terms of the Occupational Health and Safety Act and relevant regulations.

3.0 POSITION:

Plant Engineer – GMR 2.1

4.0 DEPARTMENT:

Maintenance

5.0 REPORTS TO THE:

Works Manager

6.0 ORGANOGRAM

As per the approved company organogram.

7.0 AUTHORITY

- Exercise appropriate technical and engineering authority over the maintenance, operation, inspection and safe use of plant, machinery and engineering infrastructure.
- Stop or restrict the operation of plant, machinery or equipment where an unsafe condition or significant engineering risk is identified.
- Require corrective action where engineering, safety, statutory or maintenance requirements are not being met.
- Approve or recommend engineering solutions, maintenance strategies, repairs, modifications and improvements within delegated authority.
- Provide technical direction to internal employees, contractors and service providers performing engineering and maintenance activities.
- Ensure that statutory inspections, examinations, testing and maintenance activities are conducted as required.
- Escalate significant engineering, safety, statutory and operational risks to the appropriate management structures.
- Exercise the authority and fulfil the duties assigned to the incumbent through the formal GMR 2.1 appointment.

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8.0 RESPONSIBILITIES/ACCOUNTABILITIES

8.1 GMR 2.1 and Legal Compliance

- Fulfil the duties and responsibilities associated with the formal GMR 2.1 appointment for the plant.
- Ensure that machinery and engineering systems under the incumbent's responsibility are operated and maintained in accordance with applicable legislation, regulations, standards and company requirements.
- Ensure appropriate systems are implemented for the inspection, examination, testing, maintenance and safe operation of machinery and plant.
- Maintain appropriate statutory records, registers, certificates, inspection reports and engineering documentation.
- Ensure that identified defects, unsafe conditions and statutory non-compliances are appropriately investigated, recorded and addressed.
- Provide engineering input into statutory inspections, audits, investigations and compliance reviews.
- Liaise with relevant authorities, inspectors, competent persons and external service providers where required.
- Ensure that persons operating or maintaining machinery are appropriately competent, authorised and trained.
- Advise management on statutory engineering requirements, risks and necessary corrective actions.

8.2 Plant Engineering and Maintenance

- Develop and implement effective preventative and predictive maintenance strategies for plant, machinery and engineering infrastructure.
- Provide technical support to the maintenance and production functions to maximise plant availability and reliability.
- Identify recurring equipment failures and implement appropriate engineering solutions.
- Evaluate the condition, performance and reliability of critical plant and machinery.
- Develop and maintain appropriate maintenance plans, engineering standards and asset-management practices.
- Provide technical input into the repair, modification, replacement and installation of plant and equipment.
- Ensure engineering work is appropriately planned, controlled and documented.
- Monitor maintenance performance, equipment downtime and engineering-related production losses.
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8.3 Engineering Projects and Improvements

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- Manage or provide technical oversight of **General Machinery** projects, plant upgrades, modifications and installations.
- Review **General Machinery designs**, specifications, drawings and technical documentation.
- Ensure **Plant projects** comply with applicable legal, safety, quality and technical requirements.
- Identify opportunities to improve plant reliability, energy efficiency, productivity and operating costs.
- Provide technical input into capital expenditure proposals and equipment replacement decisions.
- Ensure appropriate commissioning, testing and handover of new or modified plant and equipment.

8.4 Safety, Risk and Environmental Management

- Promote a strong engineering safety culture throughout the plant.
- Identify, assess and mitigate engineering and machinery-related risks.
- Participate in risk assessments, incident investigations and root-cause analyses.
- Ensure engineering and maintenance activities are conducted in accordance with approved safety procedures and permit requirements.
- Provide technical input into occupational health, safety and environmental initiatives.
- Ensure that engineering-related hazards are appropriately controlled and communicated.

8.5 Production Support

- Promote a strong engineering safety culture throughout the plant.
- Identify, assess and mitigate engineering and machinery-related risks.
- Participate in risk assessments, incident investigations and root-cause analyses.
- Ensure engineering and maintenance activities are conducted in accordance with approved safety procedures and permit requirements.
- Provide technical input into occupational health, safety and environmental initiatives.
- Ensure that engineering-related hazards are appropriately controlled and communicated.

8.6 Contractors and Service Providers

- Promote a strong engineering safety culture throughout the plant.
- Identify, assess and mitigate engineering and machinery-related risks.
- Participate in risk assessments, incident investigations and root-cause analyses.
- Ensure engineering and maintenance activities are conducted in accordance with approved safety procedures and permit requirements.
- Provide technical input into occupational health, safety and environmental initiatives.
- Ensure that engineering-related hazards are appropriately controlled and communicated.

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8.7 Reporting and Governance

- Prepare and submit engineering, maintenance, statutory compliance and plant performance reports.
- Maintain accurate engineering records and documentation.
- Monitor engineering KPIs, maintenance performance, equipment availability and statutory compliance.
- Provide management with recommendations regarding engineering risks, capital requirements, maintenance priorities and plant improvements.
- Participate in management meetings and provide technical input on engineering and operational matters.

9.0 Qualifications & Experience

- BSc/BEng/BTech/National Diploma in Mechanical Engineering, Electrical Engineering or related Engineering disciplines.
- Government Certificate of Competency (GCC) – Factories.
- Registered with ECSA as a Professional Engineer, Professional Engineering Technologist or appropriate engineering category would be advantageous.
- Additional occupational health and safety/machinery-related qualifications would be advantageous
- Minimum 5 years' relevant engineering experience, preferably within a manufacturing, industrial or heavy engineering environment
- Proven experience in plant engineering, maintenance and machinery reliability.
- Experience in the management of industrial plant, machinery and engineering infrastructure.
- Demonstrable knowledge and experience in statutory engineering compliance.
- Previous experience fulfilling or working with a GMR2.1 appointment would be highly advantageous.
- Sound knowledge of the Occupational Health and Safety Act and applicable machinery, engineering and safety regulations.

Authorised by:

Accepted by:

Name: _____

Name:_____

Designation: _____

Designation: _____

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