

Document Owner: Manager Customer Planning

## Generator Inspection & Maintenance - Planned Maintenance

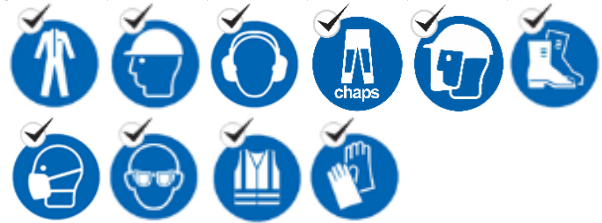
Planned maintenance procedures for generator inspection and maintenance at pump stations, reservoirs, and treatment plants.

### Health & Safety and Operational Information

#### Hazard Indicators



#### Personal Protection



#### Health and Safety Information

- Health and Safety documentation.
- Generic Traffic Management Plans or site-specific Traffic Management plan.
- Hazardous Waste
- Confined Space Entry

#### Operation's & Maintenance Documentation

- Corridor Access Requests (CAR) and WIP Permits (site specific or generic/global)
- Service plans (B4uDig)
- Design, electrical drawings and P&ID's
- Site plans

#### Customer Information (Confidential)

#### Priority Customer Categories

#### Emergency Procedure / Escalation

#### Additional Documentation

##### Emergency

- Make "Site Safe" and isolate risks to people or property with resources at hand

##### Escalate if extra resources required or problems occur!

- Escalate to Team Leader and inform of the issues faced and/or expected resources required if necessary.

### Required Skills, Competencies (Qualifications and/or Certifications)

Licensed Operator  
 Mechanical Fitter or Welder  
 Registered Electrician

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### Standard Operating Procedure

#### Required Equipment

Equipment and Information	Details
<b>Fully Equipped Vehicle</b>	Ensure vehicle, plant, equipment and materials appropriate to the day's work schedule is available.
<b>Specialist Equipment</b>	Ensure specialist equipment required is available for utilisation.
<b>Specialist Materials &amp; Parts</b>	Ensure you have loaded up all the required parts and materials required to undertake the maintenance work to be completed.

#### Prepare to do the work

Action	Action Details
<b>Pre Start Process</b>	Complete the Daily Pre Start - Planning Reactive Maintenance <ul style="list-style-type: none"> <li>- Include Hazard ID</li> <li>- Include Pre-Start Tailgate Meeting</li> </ul> Undertake all tasks required in the Generic Planned Maintenance SOP.
<b>Compliance</b>	<b>Traffic Management Plan</b> - Where required, TMP to be in place prior to work starting. TMP to be accessible on site.

#### Perform the work

Action	Trade	Action Details
<b>Record</b>	<b>Licenced Operator</b>	Record.
<b>Inspect</b>	<b>Licenced Operator</b>	Control panel faults Coolant levels, top up if required Check lubricating oil level, top up if required Check air filter when necessary change elements Check and inspect fuel system for leaks and deterioration Coolant heater working adequately Check for cooling system leaks
<b>Maintenance</b>	<b>Licenced Operator</b>	Drain or check fuel/water trap Radiator clean colling system, clear any obstructions.
<b>Record</b>	<b>Mechanical Fitter or Welder</b>	Engine Hours – Start Battery voltage (V) Battery on load test Minimum 9V under load (V) Battery analyser test Battery CCA rating (CCA) Engine Hours – Finish
<b>Inspect</b>	<b>Registered Electrician</b>	Check battery electrolyte level or colour Battery charger working Alternator cooling air
<b>Maintenance</b>	<b>Mechanical Fitter or Welder</b>	Start & run engine for ¼ hour Crank case vent clear Maintenance. Generator clean Close generator circuit breaker N/A Ensure that Generator is left in "Auto Start" Add Diesel Bug treatment
<b>Record</b>	<b>Registered Electrician</b>	Generator voltage (V)      Generator frequency (Hz)
<b>Record</b>	<b>Registered Electrician</b>	Record (Hz)
<b>Inspect</b>	<b>Mechanical Fitter or Welder</b>	Check exhaust system leakage HSNO certificate expiry date for currency