

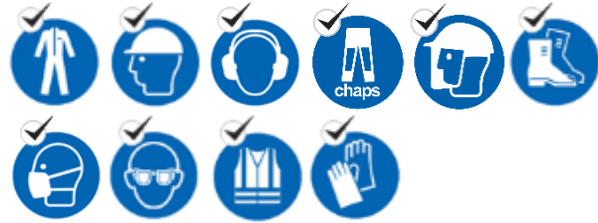
Planned maintenance procedures for maintenance and testing of Stormwater Penstocks.

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.
- Confined Space Entry

Operation’s & Maintenance Documentation

- Corridor Access Requests (CAR) and WIP Permits (site specific or generic/global)
- Service plans (B4uDig)
- Design drawings
- Site plans

Customer Information (Confidential)

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Priority Customer Categories

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Emergency Procedure / Escalation

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.

Additional Documentation

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Required Skills, Competencies (Qualifications and/or Certifications)

Industrial Fitter

Standard Operating Procedure

Required Equipment

Equipment and Information	Details
Fully Equipped Vehicle	Ensure vehicle, plant, equipment and materials appropriate to the day's work schedule is available.
Specialist Equipment	Ensure specialist equipment required is available for utilisation. (Harnesses, Lanyard, Rescue Tripod, Gas Monitor, standby person)
Specialist Materials & Parts	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
Pre Start Process	<p>Complete the Daily Pre Start - Planning Maintenance</p> <ul style="list-style-type: none"> - Include Hazard ID - Include Pre-Start Tailgate Meeting <p>Undertake all tasks required in the Generic Planned Maintenance SOP.</p>
Compliance	Traffic Management Plan - Where required, TMP to be in place prior to work starting. TMP to be accessible on site .If only affected by foot traffic, set up delineator cones and barrier cone bars.

Perform the work

Action	Trade	Action Details
Maintenance	Industrial Fitter	Check penstock site ensure clear of vegetation and upstream intake(s) are clear of materials which could result in a potential blockage. Ensure downstream spillways are also clear and free flowing report any significant erosion. Create reactive work order for issues, which cannot be rectified during scheduled maintenance. Hand dig and remove, or arrange for excavator to remove large amounts of debris. Follow Q-Pulse guidelines for ' Digging less than 1.5M deep ' Checklist.
Maintenance	Industrial Fitter	Check penstock cages (signage, condition, check, vandalism and graffiti).
Maintenance	Industrial Fitter	Remove any small areas of Graffiti. Contact preferred contractor with photo to remove large areas of Graffiti
Maintenance	Industrial Fitter	Verify authorised/restricted access signs are present
Maintenance	Industrial Fitter	Confirm no active penstock alarms.
Maintenance	Industrial Fitter	Check penstock chamber.
Maintenance	Industrial Fitter	Check transducer level is correct for actuator activated valve
Maintenance	Industrial Fitter	Check penstock operation. Open and close fully. Lubricate all mechanisms with appropriate grease.
Maintenance	Industrial Fitter	Check penstock cabinet is secure.
Maintenance	Industrial Fitter	Check penstock controls are in auto for actuator activated penstock valve.
Maintenance	Industrial Fitter	Inspect actuator condition for actuator activated penstock valve.
Maintenance	Industrial Fitter	Check penstock operation.
Maintenance	Industrial Fitter	Check for leaks and ensure all seals are operational.
Maintenance	Industrial Fitter	Remove debris from associated manholes and chambers. Follow living safely ' Confined Space Entry ' policy. Ensure correct categorisation and correct PPE is set up for chamber entry and the use of a calibrated Gas Monitor
Maintenance	Industrial Fitter	Record debris removed during cleaning (estimated volume in m3).
Maintenance	Industrial Fitter	Refit and lock all access chamber lids and covers.