

Document Owner: Manager Customer Planning

Water Treatment Plant – Tension Belts - Planned Maintenance

Planned maintenance procedures for inspection and maintenance on Water Treatment Plant – Tension Belts.

Health & Safety and Operational Information

Hazard Indicators



Personal Protection



Health and Safety Information

- Health and Safety documentation.
- Working at Heights
- LOTO (Lock Out Tag Out)
- Traffic control
- Eye and hand protection compulsory due to high pressure of grease gun

Operation’s & Maintenance Documentation

- Design drawings
- Belt Tension table (manufacturers guidelines)

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

- Qualified Mechanical Fitter (maintain by greasing plant)
- Qualified Electrician (LOTO electrical where applicable)
- Qualified IQP (specialist of Belt types and correct replacement)
- Site Safe ID / Construct Safe

Required Skills, Competencies (Qualifications and/or Certifications)

Mechanical Fitter
 Plant Technician/Operator
 Electrician
 Licensed Service Agent (supplier)

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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 Materials & Parts | Ensure you have loaded up all the required parts and materials required to undertake the maintenance work to be completed. |
| Specialist Equipment | Ensure specialist equipment required is available for utilisation. <ul style="list-style-type: none"> - Tension tool - Safety Barriers, Safety Cones with Barrier Bar, and Hazard tape. |

Prepare to do the work

| Action | Action Details |
|-----------------------------|---|
| Pre Start Process | Complete the Daily Pre-Start - Planning Reactive Maintenance <ul style="list-style-type: none"> - Include Hazard ID - Include Pre-Start Tailgate Meeting Undertake all tasks required in the Generic Planned Maintenance SOP. |
| Maintenance | All moving plant that requires isolation from any power source will need to be isolated |
| Compliance | LOTO-Lock Out, tag out when working on powered plant |
| Compliance | If working at height, use either portable scaffolding, a Scissor Lift or Snorkel Lift, inclusive of harness and lanyards. |
| Notifications | Notify Relevant Duty Officer or TL & any applicable staff prior to all maintenance. |
| Notifications | Photograph all aspects of the inspection |
| Organise Inspection | Organise for internal resources to perform required tasks as per PM |
| Organise Maintenance | Traffic Management Plan - Cones and barriers in place when working, including overhead inside of buildings. |
| Maintenance | Identify the correct tension settings for the various belt types and sizes. Make sure correct belt is available if replacement is required. |

Perform the work

| Action | Trade | Action Details |
|--------------------|-------------------|---|
| Maintenance | Mechanical Fitter | Removed guarding and ensure it is in working order, repair if necessary, ensure running plant cannot be reached when guard is in place. Check all fastenings are present. |
| Maintenance | Mechanical Fitter | Re-Tension of Belt. Use manufactures recommendation for centres, size and deflection. Check belt for cracking and any fraying. Replace if excessive wear. |
| Maintenance | Mechanical Fitter | Replacement of belt. Ensure tensioners are located correctly and locked in place. |
| Maintenance | Mechanical Fitter | Once job is completed, reinstall all guarding. Ensure all fastened correctly |