



FIRE WATER TANK REPLACEMENT

Key Capabilities:

- Concept Design
- Front End Engineering
- Detail Design
- Project Management

Overview

Our Client supplies approximately a quarter of all Australia's petroleum products. Their Newport Terminal is an important fuel storage and distribution point in Victoria.

Part of the essential services in maintaining the operational integrity of the Newport site is the fire water system. The fire water tank had reached its life cycle end, and hence required replacement. Vecta were engaged to engineer, manage and deliver this project.

Scope

The scope of work included:

- Concept design;
- Front end engineering design;
- HAZOP facilitation and documentation;
- Detail Design of piping, electrical and instrumentation drawings;
- Construction scope preparation and subcontractor tender evaluation;
- Project management including schedule, budget and technical queries;
- Project QA compilation and closeout.

Challenges

Being a brownfield installation in an operating environment, this provided inherent challenges including:

- Consideration of continuous operation whilst progressing the works;
- Temporary bypass system required for the duration of the works;
- Integration into existing systems, including pipework, electrical and instrumentation;
- Co-ordination of several independent stakeholders;
- Risk mitigation during site works.

Solutions

An innovative temporary bypass system was implemented to ensure essential services remained available during the works.

Front end engineering focus ensured re-work was mitigated, installation was specification compliant and site works minimised.

Consultation with primary stakeholders, via design review sessions to ensure 'buy-in', particularly for the end users.

Careful and considered sequencing of the various subcontractors to ensure safety, maximise timeliness and minimise cost.

Methodology sessions, focussing on safe work practice and risk mitigation were undertaken.

Outcomes

Fire tank replacement completed on time and on budget.

Regular report of progress, schedule and cost ensured client was kept up to date and could make informed decisions where necessary.

Operational downtime minimised.

Want to Know More?

For more information please contact our office on +61 (03) 9326 9384, email info@vectagroup.com.au, or visit our website vectagroup.com.au