



JET FUEL PIPEWORK OPTIMISATION

Key Capabilities:

- Front End Design
- Detail Design
- Tender Evaluation
- Project Management

Overview

Our Client supplies approximately a quarter of all Australia's petroleum products. Their Melbourne distribution terminal receives stores and distributes fuel products via existing pipelines.

There are currently three Jet Fuel storage tanks at the terminal. The purpose of this scope of works is to provide the tanks with additional system capability to accept product from various sources, and discharge product to various locations.

The Vecta Group were engaged to engineer, manage and deliver this project.

Scope

The scope of work included the following:

- P&ID review, and update (upon project completion)
- Concept proposals and preliminary costings;
- Front end engineering and design;
- Piping, electrical and instrumentation drawings;

- Vendor data review for two new double block and bleed actuated valves;
- Construction scope preparation and subcontractor tender evaluation;
- Project management including progress to schedule, actual to budget costs and technical queries;

Challenges

- Congested area to install new pipework.
- Minimum shutdown window to effect installation.
- Safety consideration in managing pipework.
- 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

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

minimised.

Consultation with primary stakeholders, via HAZOP 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, ensured the carefully selected subcontractors were focussed on mitigating risk through the phases of the site works.

Outcomes

Pipework and valve installation 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