



TANK CONSTRUCTION - ENGINEERING SUPPORT

Key Capabilities:

- Engineering Technical Guidance
- Procurement Overview

Overview

Our Client supplies approximately a quarter of all Australia's petroleum products. They include petrol, liquefied petroleum gas (LPG), diesel, aviation fuel, propylene, solvents and bitumen. The Melbourne distribution terminal receives stores and distributes fuel products via existing pipelines.

Due to a combination of an existing storage tank reaching the end of its' serviceable life, and the requirement for additional storage capacity, the business decision was made to replace the existing tank with new larger capacity unit.

Vecta were engaged to provide site engineering expertise, and back office technical support, during the construction phase of the project.

Scope

The scope of work included the following:

- Provision of site engineering personnel during construction phase, with primary responsibilities being:
- Provision of technical guidance; Construction schedule review, with focus on optimisation;
- Technical query process including: registration, review, monitoring and resolution;
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focus on optimisation;

- Technical query process including: registration, review, monitoring and resolution;
- Client and subcontractor liaison interface;
- Procurement overview.

Challenges

With the critical nature of tank capacity, the optimisation, and continuous review, of the construction schedule was an integral component of successful project delivery. With competing work front access requirements, site equipment priorities, operational interfacing and adverse weather all contributing the complex nature of the schedule optimisation.

Additionally, procurement, particularly of long lead time items, and prompt technical query responses times were essential components of efficient project progress and continuation without unnecessary delays.

Solutions

Focus on the detailed scheduling of all activities, with the input of key stakeholders ensured 'buy-in' to the project milestones and clearly defined outcomes. Continuous challenging of the scheduled activities and the construction processes involved combined to ensure the most efficient delivery methods.

Examples of this include:

- specific crane utilisation schedules for both tank construction, pipeline installation and civil requirements, and
- close and detailed monitoring of weather conditions ensured tasks could be scheduled and completed without lost time.

Detailed procurement schedules, involving input from suppliers, ensured traceability of procured items and delivery timeframes.

An agreed process for the initiation of technical queries, and a tracking system, ensured that the criticality of queries, and response times, were clearly identified, understood and monitored.

Outcomes

There were no incidents during the execution of commissioning procedures that Vecta was responsible for.

The Client was able to meet their Customer's demands.

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