

STEAM & CONDENSATE PIPEWORK – FABRICATION & INSTALLATION

Project Overview

- Isometric verification
- 3D site scanning and closing length confirmation
- Offsite fabrication, testing and coating
- Site installation
- Project Management
- HSSE management
- Supervision
- Trade Provision
- Specialist subcontractor engagement and management
- Testing and Commissioning
- QA and MDR upon completion



Overview

Our client is an operator of a polypropylene production facility in Geelong, Victoria. The facility is incorporated into the Viva Refinery complex. The Client is undertaking a project to repair pipework and valves within the existing steam and condensate piping system. This includes the fabrication of piping spools and consequent installation activities associated with the replacement program. While most of the tie-in works will be undertaken during shutdown conditions, the pre-planning works including fabrication and access requirements (eg. scaffolding) will be undertaken prior to the outage events.

Vecta was engaged to execute the pipework replacement program for these work.

Objectives

The key objectives whilst completing the scope of works were:

- Zero HSSE incidents;
- Schedule monitoring and incorporation in to the overall shutdown timeframes;
- Maintain or better cost targets.

Scope of Works

Vecta ‘s Scope of Works included:

- Final site measurements of existing pipework including closing lengths
- Material procurement
- Planning including work pack development
- Offsite pipework fabrication, testing, coating and delivery to site;
- Scheduling, managing competing work scope interactions;
- Permit recipient process;
- Pre-shut access installation and modification during installation;
- QA and MDR finalisation;
- Practical Completion signoffs and handover.

Delivery

Delivery included the site scanning of the existing pipework installations. This process verified the isometrics provided by the client and minimised the site welds and hot work during the outage down time .

Outcomes

Vecta self-performed the site scanning requirements. This in-turn verified the fabrication requirements.

Off site fabrications was undertaken by one of Vecta’s preferred fabrication workshops, with **pipng and mechanical site installation fully self- performed by Vecta trade resources .**

Using this innovative process of scanning coordinates on site and developing shop isometric drawings, Vecta was able to minimise the site welding requirements and provide an installation schedule that fully complied with and significantly compressed the original durations allowed for by our Client. Minimising hot work on site also removed the risk of issuing permits to work

Want to Know More?

Phone: +61 (03) 9326 9384

Email: info@vectagroup.com.au

Website: vectagroup.com.au