



ELECTRICAL/INSTRUMENT ENGINEERING SUPPORT

Key Capabilities:

- Completions
- Pre-Commissioning
- PIMS CCMS

Overview

In November 2017, our Client, Australia’s leading energy infrastructure business, acquired a gas processing plant in east Victoria. This afforded our client remit to own, upgrade and operate the plant, which would process gas from offshore fields. As a fully operational plant, its capacity would be up to 68 terajoules per day of natural gas, which is equivalent to 12% of current demand in Victoria.

Vecta were engaged to provide Electrical, Instrumentation and Controls (EI&C) engineering support during the critical phases of the gas plant upgrade, which were the mechanical completion, pre-commissioning and commissioning phases.

Scope

The scope included the following:

- Executing pre-commissioning activities (I&C) and accountable for maintaining I&C teams productivity and adherence to schedule.
- Managing, instructing and supervision a team of 18

Instrument Technicians, including management and provision of test gear and consumables.

- Provision of technical advice during testing and ensuring all work is carried out in a safe and reliable manner.
- Preparing EI&C Pre-commissioning specifications and procedures.
- Estimating and scheduling EI&C Pre-commissioning task durations.
- Completing full review of the EI&C portion of the PIMS CCMS.
- Subsystem walkdowns with construction team and accepting subsystem MC handover.
- Accepting MC ITRs and confirming punch item closeout and status from construction team.
- Completing Pre-commissioning ITR checksheets and punch item closeout.
- Preparing sub-systems dossiers for pre-commissioning handover.

Challenges

- Compressed commissioning schedule due to construction delays and environmental disturbances in the region.
- Dynamic critical path that led to ever-changing priorities.

- Incomplete data and missing assets in PIMS CCMS.

Solutions

As a Major Hazard facility, pre-commissioning and commissioning activities were required to be risk assessed and managed as necessary, which was a considerable challenge with a moderately sized team.

Subsystem prioritisation and a working knowledge of punch items that may hinder progress were also crucial elements in the methodology employed to advance commissioning activities within a compressed timeframe.

Outcomes

There were no incidents or injuries that occurred under Vecta Group E&I supervision.

The Client was able to meet their Customer’s demand.

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