



LOCHARD ENERGY

Iona Gas Plant

April 2017 Shutdown

PORT CAMPBELL, VICTORIA, AUSTRALIA



The Challenge

Lochard Energy had a scheduled shutdown planned for their Iona Gas Plant in Victoria and wanted a shutdown contractor with proven experience to plan and manage this shut. Furthermore Lochard wanted the contractor to bring with them a robust shutdown specific Information Management System for planning and scheduling the shut, and for generation of meaningful information for future shutdown activities.

Fitzroy were asked to provide labour resources also and assembled an experienced team of qualified shutdown personnel who successfully executed the shutdown on time and within budget.



Tools

This IMS tool needed to output accurate data detailing times and costs for work on individual plant items for use in future shut planning. To achieve this Fitzroy Engineering were able to introduce both the Dialog Intelligent Planning System (DIPS) for planning and scheduling and TimeClock automated time recording system for accurate and instant reporting of time spent and real time monitoring of shutdown status.

The Project

The project was based on an agreed scope work comprising inspection and maintenance works, as well as numerous Plant Improvement Projects. The Master Work List included a number of maintenance tasks which had been accumulated from previous shutdown efforts, so the target was to clear these and give the plant a clean bill of health. This was achieved for both mechanical and Electrical and Instrumentation works.

A large number of Emergent Work Requests were raised during the execution phase, and were included in the work scope.

Progress Reporting

Site labour resources were recorded in TimeClock meaning there was no requirement for paper timesheets. Time entry for the shutdown labour groups was automated, using a swipe system and touch screen interface to select shift and work order details. These inputs were approved daily by the area coordinator and supervisors, and by the client.

On completion the actual hours recorded were compared with the baseline planned hours, to provide more accurate work packs for the individual plant items that will be repeated during future shutdowns. The project schedule activities were monitored and progress was reported on a daily overall S-curve and labour analysis.

Pig Launcher/Receiver Upgrade

During the Shutdown, the North Paaratte Pig Launcher / Receiver assemblies were replaced with Double Block and Bleed valves. These were installed in preparation for future installation works.



North Paaratte – Pig Launcher Upgrade - BEFORE



North Paaratte – Pig Launcher Upgrade - AFTER

Key Features

- Successful shutdown completed in nine days – as planned and budgeted
- Fitzroy managed the shutdown planning and execution, and provided mechanical labour
- Site Man hours - approximately 11,000
- Total Recordable Injury Frequency Rate (TRIFR) of 0



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