

Nitrogen Generation Plant Maintenance



Bright Group successfully delivered EI&C maintenance and project services, supporting reliable plant operations through instrumentation, electrical works, ABB PLC/DCS fault finding, and structured preventative maintenance programs.

Scope of work

The scope of works involved the delivery of Electrical, Instrumentation and Controls (EI&C) maintenance and project services to support the safe and reliable operation of site assets. This included planned and reactive maintenance across electrical and instrumentation systems, as well as the execution of EI&C project works.

Key activities included the calibration, loop checking, installation, and commissioning of instruments, electrical inspections and general electrical installations, and instrumentation-related valve stroke checks. The team also completed HV switching and isolations, equipment functionality testing, pump repairs and maintenance, and fault finding and programming of ABB PLC and DCS systems.

A structured 12-monthly preventative maintenance program was implemented to improve asset reliability, reduce unplanned downtime, and support ongoing operational performance.

Overview

CLIENT

Supagas

LOCATION

Karratha, Western Australia

SERVICES

Electrical & Instrumentation

CAPABILITY

Maintenance

INDUSTRY

Oil and Gas

VALUE

\$1,500,000 / year approx.

Key activities completed

- Calibration and loop checks of field instruments.
- Installation and commissioning of new instruments in accordance with site standards.
- Electrical inspections, testing, and installation works.
- Valve stroke checks to confirm correct operation.
- HV switching and isolations in line with safety procedures.
- Testing of equipment to validate performance and operation.
- Pump repairs, and ongoing maintenance to support reliability.
- Fault finding, diagnostics, and programming of ABB PLC and DCS control systems.
- General electrical installation works to support maintenance and project requirements.
- Completion of 12-monthly preventative maintenance activities to improve asset reliability.



Safety initiatives

Safety excellence was reinforced through the implementation of robust gas-specific safety systems, procedures, and competency-based maintenance practices, ensuring all works were carried out in a controlled and compliant manner. This disciplined approach has delivered an outstanding safety record, with zero incidents recorded over nine years, demonstrating a strong safety culture and setting a high benchmark for reliability and risk management in gas operations.

Points of difference

A point of difference is the depth of experience within our workforce, backed by strong technical support and 24/7 availability, enabling reliable delivery and rapid response for our clients..

A tailored, secure web-based monitoring solution was designed and implemented to provide the client with real-time visibility of tank levels, improving accessibility, operational awareness, and informed decision-making.

A proven and highly disciplined safety culture, consistently demonstrated by zero safety incidents over more than nine years of operations, reflecting our unwavering commitment to risk management and workplace safety excellence.

“We are proud of our team’s dedication, maintaining zero safety incidents over nine years while consistently delivering reliable, high-quality solutions.”

General Manager, SECA Electrical Engineering