

Det-Tronics Fire & Gas Detection System Chosen for STOS Maui B Upgrade

A \$60 million upgrade of Taranaki's Maui gasfield is currently being carried out to extend the life of the offshore development beyond 2020.



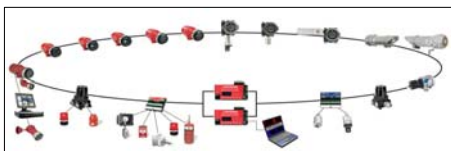
STOS Maui B Platform

The project involves a crew of 35 moving on to the previously unmanned Maui B platform for five months to replace the tubing in one of the existing well bores and re-drilling a process known in the oil industry as "recompletion".

The other three Maui B wells will also be re-drilled in a separate process called "side-tracking".

The major project is being overseen by United States specialist contractor Cudd Energy Services, who have moved a hydraulic workover unit to Maui B.

POGC Sensor Technology were contracted to design, build, program and commission a custom built fire and gas detection system for the Cudd Hydraulic Workover Unit and surrounding area on the upper deck of the Maui B platform. This work needed to be completed in less than 8 weeks from order



Det-Tronics EQP Fire & Gas Detection/Releasing System

Det-Tronics X3301 flame detectors and PIRECL gas detectors along with the Det-Tronics EQP Addressable Fire & Gas Detection System were chosen to protect both lives and plant from potential gas leaks and fires during this potentially hazardous upgrade project.



Production of Det-Tronics EQP System designed for Zone 2 Hazardous Area

This is a relatively unique application and POGC were able to aid in the initial design of the "Cause & Effects" charts that are required to enable the detailed design of hardware and software to begin. This system also had to be designed to be installed in Zone 2 hazardous area which is difficult to achieve in such a short period of time.

During this process, once the required numbers of flame and gas detectors were known, we were able to quickly deliver these field devices to site so the installation could begin. With the Det-Tronics EQP system installation time and costs are reduced as it is a bi-directional loop based system and less cabling is required.

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Once the Cause & Effects charts were created POGC were able to quickly design, program, build and test the system within the given time frame and the completed system, after passing 3rd party Factory Acceptance Testing was shipped to Maui B for installation.

There were plenty of challenges in undertaking this contract, not least of which was designing, building, testing and supplying a fully operational, custom built fire and gas detection system (along with all associated field devices and junction boxes) that needs to be installed in a hazardous area in under 8 weeks from order but POGC were able to deliver.

Once the build was completed the system needed to be commissioned on Maui B in a very short time frame and POGC had an engineer on Maui B ready to commission while the electrical installers were finishing the installation of the system.



POGC is a specialty instrumentation company. We pride our self on our strong technical knowledge and our responsiveness to customers. We'd love to be able to help you out with any future projects. A brief overview of our main products is below:

- Industrial overpressure protection – bursting disc
- Fire & gas protection systems for hazardous areas.
- Industrial analysers:
 - Dewpoint / Moisture in hydrocarbons (-100°C[dp] to +20°C[dp], self calibrating)
 - Continuous Gas analysers (CO, CO₂, H₂S, Cl, NO_x, SO_x etc.).
 - Point toxic gas detection (H₂S , O₂, CO/CO₂, Cl₂, SO₂, NO₂ etc.).
 - Wobbe index analysers.
 - Physical property analysers (RVP etc).
 - Gas Chromatographs
- Flame scanners for burner/boiler control.
- Burner/flame management systems.
- Boiler/burner Ignition systems.
- Oil in/on water detection and oil in soil detection.
- Sodium hypochlorite generation for biofouling treatment of seawater cooling circuits.
- Reverse osmosis water treatment filtration plant.
- Engineered solution to thermal expansion joint and hoses design.
- Engineered systems including sampling systems, systems integration, analyser houses & shelters.

We believe our people have the best technical and hands on experience available to ensure safe operation and maximise production and availability of our customer's process and plant.

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