

SuccessStory

HIMA supplies systems for the Pohokura gas field, NZ

Project Overview

Branch

Process industry

Application

BMS, ESD and Fire & Gas systems

Hardware

- 3 H51q Systems
- 2 H41q Systems

Functions

- 1 BMS
- 3 F&G
- 5 ESD

Number of I/Os

360 I/Os

Features

- OPC Communications
- OPC Alarm & Events



Customer

End user:
Shell Todd Oil Service
(STOS)

EPC:
Transfield Worley New
Zealand (TWNZ)

Project

HIMA systems installed at the Pohokura field provided scalable (expandable) systems

H41/51q safety instrumented systems protect the gas plant with independent dedicated emergency shutdown (ESD), burner management (BMS), and fire and gas (F&G) loops on the Pohokura gas plant and offshore platform just outside New Plymouth, NZ. The H41q/H51q systems were the first safety-related controllers in the world to enable unrestricted use of up to SIL 3, even in single-channel applications.



SAFETY
NONSTOP



Project Description

The Pohokura field is an oil and gas field located 4km offshore of north Taranaki in New Zealand and is the largest gas producing field. Part owned by Shell (48%), OMV (26%) and Todd Energy (26%), the field was discovered in 2000 by Fletcher Challenge and has total estimated reserves of 996 Bcf (1167 PJ) of gas and 59.4 mmbbls of condensate. Situated in approximately 30m of water, the field has six offshore and three onshore wells with the production station located on shore, adjacent to the Motunui methanol plant.

The scalable type H51q HIQuad controllers are each suitable for automation tasks with up to 4096 I/O points, and are certified according to the standard AS(IEC) 61508.

The H41q/H51q HIMA systems installed at the Pohokura field provided scalable (expandable) systems that could be added to and modified easily. The inclusion of a dual distributed communications network made the passing of information between the HIMA PES's, and other connected devices, a simple (again scalable) and efficient means of communication. This proved invaluable for the complete installation as the production station and off-shore platforms are unmanned and are operated from the control room situated in the centre of New Plymouth.



Overview of Features

- Certified up to SIL 3 (IEC 61508)
- Modular expandable technology
- Comprehensive integration and communication options
- Scalable controllers 19" technology
- Maximum fault tolerance
- High availability
- Flexible redundancy management

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