



A Rockwell Automation Company

Blizzard Energy Inc. Sousa Gas Plant Expansion

The Client:

Blizzard Energy is an Alberta-based oil and natural gas exploration and production company. The corporation is engaged in the exploration for, and the development and production of natural gas and crude oil in the

western Canadian sedimentary basin primarily in northwestern Alberta.

The Requirement:

In 2003, Blizzard acquired the Sousa Gas Field and Process Plant from Encana Corporation. The Sousa Plant, located near Rainbow Lake, had been built in the mid 1970's. In early 2004, Blizzard started an aggressive well drilling program. The success of this program meant that additional primary gas processing facilities were needed. In the fall of 2004, Blizzard initiated a project to add new process facilities on the

Sousa site and tie them into the existing plant. In addition, a booster compressor, called Larne Booster, was located approximately 30 km from the Sousa Site to boost pipeline pressure from the remote gas wells into the Sousa Plant.

The Design Solution:

The project included the electrification, protection and control of skid mounted gas compressor, inlet separator, dehydrator and Motor Control Center/Utility Buildings.

Electrification included an increase in power capacity to the new Sousa plant from Atco Electric and power distribution from the old plant to the new MCC/Utility building. Power for the new skids was distributed through the new MCC/Utility building and including lighting, heating, heat tracing and various motor loads.

The Larne Booster included a compressor skid, MCC/Utility building and a gas/diesel powered 43kW electric generator. Power was distributed from the generator to the MCC/Utility building and then to the booster skid.

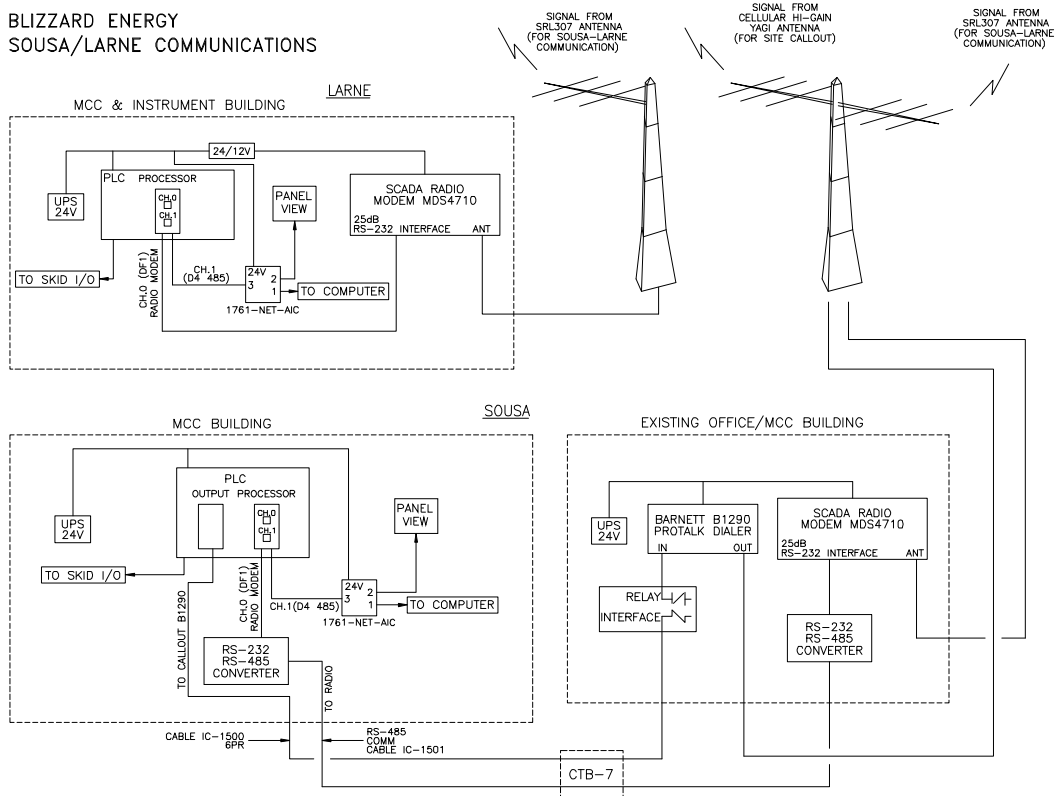
A Rockwell CompactLogix Programmable Logic Controller and PanelView operator interface was used at both Larne and Sousa to provide plant wide control and monitoring. Intelligent fire & gas detectors were connected to the PLC for fire and gas monitoring and protection. Radio communication between Larne and Sousa was provided using SCADA radios, and a Barnett Protalk auto dialer was installed at Sousa to provide automatic cell phone call out.



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BLIZZARD ENERGY SOUSA/LARNE COMMUNICATIONS



System Specifications:

Sousa Gas Plant:

- Inlet separator skid from Enerflex
- Compressor skid from Enerflex
- Dehydrator skid from Enerflex
- MCC/Utility building skid from Pyramid Electric
- CompactLogix PLC and PanelView Man Machine Interface from Rockwell
- Flame detectors from Det-tronics
- Gas detectors from General Monitors.
- Protalk Auto Dialer

Larne Booster:

- Compressor/Inlet Separator Skid from Toromont Process Systems
- Generator Skid from Enerflex
- MCC/Utility Building Skid from Pyramid Electric
- CompactLogix PLC and PanelView MMI from Rockwell.
- Flame Detectors from Det-tronics.
- Gas Detectors from General Monitors.
- Scada radios

For further information or to contact a Hinz office near you, please check our website at:

www.hinz.com