Adetech® INDUSTRIAL•GROUP

Solution Creators

CERTIFICACIÓN DEL SISTEMA DE CALIDAD DNV·GL ISO 9001:2015

BLOCK VALVE STATUS DETECTION SYSTEM

Gasoducto Cruz del Sur | MONTEVIDEO | URUGUAY

ENVIRONMENT

Gasoducto Cruz del Sur has stations distributed throughout the territory of Uruguay, which are in charge of regulating pressure and measuring flow, with the aim of distributing and delivering natural gas to the entire home network.

The pressure regulation system is made up of two regulation branches, an active branch and a stand-by branch, each one has an active control valve and a monitor control valve with built-in lock.

The output pressure value and the status of the mentioned valves are transmitted through Remote Control Units (RTU's) to the SCADA system located in the GCDS Control Room for permanent monitoring.

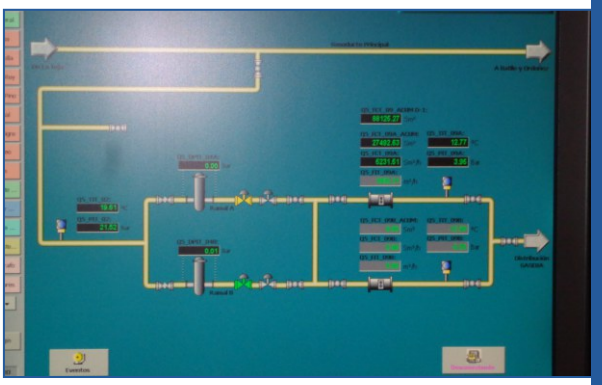
EXECUTION	WEEKS	WORK TEAM	ENGINEER/TECHINICIAN	COMPOSITION	DETAIL
	10		4		25% Labor 75% Materials

2014

Gasoducto Cruz del Sur

GENERAL PROJECTS TASKS

The system was implemented at Bella Vista and Edison Station.



DEVELOPMENT.

- Design of the new system for detecting status, cost evaluation and needs.
- Selection of suitable equipment for the system.
- Projection of parts to be used in the system.
- Manufacture of parts necessary for adaptation and proper fit of the system to existing valves. (Supports, shafts, adapters).

FIELD.

- Disconnection of inductive sensors.
- Support assembly specially designed to fix the head.
- Extension shaft assembly.
- Installation of mechanical head with status switch.
- Electrical connection of the head contacts and intervention on the RTU board.
- Head cam adjustment for correct status indication.

RTU's Bristol and SCADA iFIX DYNAMICS

- Study and understanding of the RTU program.
- In online mode with the RTU processor, the inputs corresponding to each valve status were checked.
- Modification of stimulation parameters within the IFIX application, for each valve of the distribution stations.

MAIN OBJECTIVES OF THE PROJECT

Replace the defective and unreliable system for detecting the status of shut-off valves with a new system that allows knowing with certainty the position of said valve, guaranteeing correct visualization from the SCADA, which is consistent with the field.

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