

## Case Study

### YPFB Chaco SA Migrates to Experion PKS® from Rockwell's ProcessLogix Without Downtime



“This migration procedure without plant downtime saved the company \$195,000 in production loss and facilitated management authorization for future control system update projects.”

- Fernando Noriega and Rodolfo Rivero, YPFB Chaco SA, Bolivia

#### Background

YPFB Chaco S.A. is an oil and gas company, focused on exploration and production, located in Bolivia, South America.

The Vuelta Grande Plant is a cryogenic gas processing plant. The Vuelta Grande Field was discovered in 1978. From 1985 to 2009, gas was injected into the reservoir in order to maintain reservoir pressure producers. In 1989, YPFB began operating the gas processing plant.



The current average daily production is 305 barrels of oil, 59 million cubic feet of gas, 695 barrels of gasoline and 310 cubic meters of liquefied gas.

#### Benefits

Like many users, YPFB Chaco found that their aging Rockwell ProcessLogix system could not keep up with their automation and business growth, while the cost of maintaining these systems continued to rise.

Migration from Rockwell ProcessLogix systems to Honeywell's Experion® Process Knowledge System (PKS) can improve plant safety and business performance, and minimize downtime and maintenance costs.

A well-planned and executed control system modernization can improve plant asset availability and reliability, and can also enhance business performance and flexibility.

#### Challenge

Because of aging equipment and rising maintenance costs, YPFB Chaco determined that migration to Honeywell's Experion PKS was the best solution. However, the site needed to migrate without process downtime.

#### Solution

The site determined that migration to Experion PKS R310 was the best choice since the software was compatible with the ProcessLogix system.

The implementation plan included:

- Step I – Determining the most critical loops necessary to keep the plan running safely. Of 118 control loops, 40 were deemed critical.
- Step II – Assemble and configure a new controller rack with spare C200 and I/O modules.
- Step III – Prepare some terminal blocks to move the instrument connections easily to the new controller.
- Step IV – Through teamwork, operators, technicians, and control engineers were able to move one loop at a time, moving the instruments' connection to the migration I/O module and assigning the loop to the new C200.

The team determined that the migration procedure required five extra days work for the control engineer and wiring technician.

#### Results

Due to Experion's architecture and because the migration configuration was made in the same Control Builder and same server, it was not necessary to allocate additional configuration hours to show the data from the migration controllers on the displays. The migration was, therefore, transparent to the operators' displays.

There was no need to configure new control modules on the new controller, but rather just to re-assign among the controllers.

Additionally, there was no need to reconfigure the HMI point addresses, since when re-assigning the control modules, the point names and parameters did not change.

The migration procedure, without plant downtime, saved the company \$195,000 in production loss. In addition, the success of the migration facilitated management authorization for future control system projects.

### About ProcessLogix System Migration to Experion

Experion is the only process automation system designed to manage users' business, processes and assets in one system. With its innovative operator and human-machine interfaces (HMIs), it helps improve plant safety while optimizing processes.

Utilizing Honeywell's migration solution, users can migrate from Rockwell ProcessLogix to Experion without replacing their controllers or I/O since it fully supports ProcessLogix graphics, control strategies, reports and history and requires no translation.

The Experion process automation system is designed to be used with programmable logic controllers (PLCs) and other devices as well as Honeywell's native controllers. Its reliable architecture gives operators an uninterrupted view of the process, using the world's leading graphics language. Backed by the best investment protection in the industry, users can be assured of sustainability and plant safety for years to come.

Honeywell's migration solution for Rockwell ProcessLogix systems provides direct integration with the Experion platform, thereby enabling greater access to real-time information and analysis tools to help users make faster and more effective decisions. At the same time, it protects existing investments by providing full support for Rockwell devices.

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### For More Information

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