

A New View on Safety, Security, and Operations

Case Study

With Digital Video Manager and a complete fire and gas system at its new Sierras Blancas facility in Argentina, Shell has incorporated video into process control and safety for an increased situational awareness and better safety and security.

Background

Shell's Early Production Facility located in Sierras Blancas, Neuquén province, Argentina, was inaugurated in April. Part of Shell's US\$1.2 billion investment planned for the country between 2017 and 2020, it is helping boost its downstream business and expanding shale oil production.

With capacity of up to 10,000 barrels per day, the plant processes output from wells in blocks Shell operates in Sierras Blancas, Cruz de Lorena and Coiron Amargo Sur Oeste.

With Honeywell already providing the control and automation system, Shell also awarded it the contract for CCTV, access control, and fire and gas systems. Standardizing on a single vendor, the business was able to benefit from a single, comprehensive and tightly integrated system.

Challenge

Shell wanted a CCTV system that would not only provide surveillance of the perimeter and main entrance, but also monitor key operations. The system would provide security, access control and intrusion detection, as well as monitoring and recording to verify operator actions.

More than 30 cameras were needed to cover the entire perimeter fence, vehicle and pedestrian entrances and exits, and sites across a sprawling facility, day and night. Domo and a variety of other camera types would take on a range of different functions, including flare monitoring.



Shell's Early Production Facility in Sierras Blancas

Solution

Honeywell's solution for Shell was based on its [Digital Video Manager](#) (DVM) solution and [Honeywell XLS3000](#), an intelligent fire detection, suppression and mass notification control system. Both integrate tightly with the site's [Experion PKS](#) distributed control system and its [Safety Manager](#) solution to provide a comprehensive platform to seamlessly incorporate video into process control, safety and security.

DVM provides the plant with a powerful digital video solution covering all CCTV in the plant, with support for both IP and analogue cameras from multiple manufacturers.

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Smart recording, retrieval and analytics means operators and security personnel can rapidly call-up relevant video to verify operator actions, confirm entrances and exits or review only video showing movement.

Seamlessly integrated into both control and security systems, operators can access and control video anywhere within the operator HMI. An integrated workflow also provides for navigation of alarms.

The Honeywell XLS3000 intelligent fire alarm control panels combine with industry-leading detection devices. This provides UL-Listed and NFPA 72 compliant detection and suppression for smoke, fire and gas.

Benefits

Shell benefits from a tightly integrated system harnessing the power of video to enhance safety, security and operational control. Access control, perimeter fences, process and flare monitoring cameras from different manufacturers across the plant are all managed by a single, powerful platform.

Operators can rapidly call up cameras for any area across the site, and view and control video using the keyboard with joystick directly from control or safety screens.

Enhancing situational awareness, DVM provides fast, eyes-on understanding of situations, with the ability to configure the system to automatically display video related to process or security alarms.

DVM also eliminates the need to trawl through footage to find relevant material. Smart recording, retrieval and analytics means operators and security personnel can rapidly call-up relevant video to verify operator actions, confirm entrances and exits or review only video showing movement.

Finally, the system is supported by the safety functions of the XLS3000, providing a robust, NFPA-compliant fire and gas system, incorporating all flame detectors, smoke detectors and gas

About Honeywell's control and safety

Honeywell transforms process control beyond traditional Distributed Control System (DCS) functionality by unifying assets, processes and people to improve business agility. Its Control, Monitoring and Safety Systems deliver integrated process control and advanced safety with better lifecycle support to protect and future-proof users' investments.

For More Information

Learn more about Honeywell Products and Solutions, visit honeywellprocess.com or contact your Honeywell Account Manager, Distributor or System Integrator.

Honeywell Process Solutions

1250 West Sam Houston Parkway South
Houston, TX 77042

Honeywell House, Arlington Business Park
Bracknell, Berkshire, England RG12 1EB UK

Shanghai City Centre, 100 Zunyi Road
Shanghai, China 200051

www.honeywellprocess.com

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