Case Study

Yerevan Power Plant Improves Process Control Efficiency and Reliability with Experion® PKS

“With Honeywell’s control solutions, we were able to build a reliable process automation infrastructure, which yielded remarkable operational results.”

- Vae Kharazyan, Head of Automation and Process Monitoring, Yerevan Heat and Power Plant

Background

The Yerevan Heat and Power Plant is one of Armenia’s largest power generation facilities. The gas power station has seven units with a design capacity of 755 MW.

In 2011, Honeywell entered into a contract with the Yerevan facility to upgrade its process control systems. The scope of the contract included supplying Honeywell’s Experion® Process Knowledge System (PKS), as well as support and maintenance services.

Benefits

Through collaboration with Honeywell, the Yerevan Heat and Power Plant will realize benefits such as

- Plant operation from a single control room, thus keeping a closer eye on the process cycle and enhancing overall efficiency
- Reduced energy costs, added controllability and improved availability of the plant due to advanced process control
- Increased reliability and improved overall performance
- Highest rate of utilization ever experienced by the facility
- Lower costs and shortened project schedule due to reduced engineering and installation effort
- Targeted return on investment expectations

Challenge

When constructing a new power generation plant, Yerevan management was faced with equipping the facility with a reliable control system that would meet all of its operational requirements. This included unified control over every process unit, the ability to integrate with third-party equipment, a convenient user interface and an increased level of security.

The contract to supply automation equipment was signed by Honeywell and Yerevan. Honeywell’s key task was to unify all systems within a single control room and create a common process control information space, as well as integrate the newly implemented and existing systems.

Solution

After considering bids submitted by several automation companies, the Yerevan Heat and Power Plant decided to implement the control system offered by Honeywell.

Honeywell installed its core Experion PKS solution, enabling the plant to fully control both access and process performance. Honeywell’s team also performed equipment startup.

When choosing Experion PKS, Yerevan Heat and Power Plant’s major objectives included employing the most advanced and intelligent technology to automate its processes, as well as
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providing complete availability with existing systems. Another important consideration was ensuring the safety of personnel working at the facility.

**Results**

With Honeywell’s advanced process automation solutions, the Yerevan Heat and Power Plant can take full advantage of integrated control and safety systems and automation software under a single interface. This has already resulted in overall plant-wide improvements.

“With Experion PKS, not only did we realize all the benefits from integrating third-party control systems, but we also achieved an easy-to-use human machine interface. Additionally, it’s important to mention easy maintenance and simplified configuration by the plant engineers,” said Vae Kharazyan, Head of Automation and Process Monitoring.

**About Experion PKS**

Experion PKS integrates an advanced automation platform and innovative software applications to improve users' business performance and peace of mind. Unifying people with process, business and asset management, it helps process manufacturers increase profitability and productivity. Experion PKS is the only automation system that focuses on people — making the most of the knowledge they hold. By integrating disparate data across facilities, making the most of resources and people, and feeding it all into a unified automation system, users can achieve an operation that's more proactive, efficient and responsive.

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**For More Information**

Learn more about how Honeywell’s Experion PKS solution can optimize your operational performance, visit our website [www.honeywellprocess.com](http://www.honeywellprocess.com) or contact your Honeywell account manager.

**Honeywell Process Solutions**

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