

## Case Study

### Refiner Shares TDC2000 to Experion PKS<sup>®</sup> Upgrade Experience



“I have been a pleased Honeywell user and customer for a long time. Honeywell is very customer centric. Often, I feel that, when we are working an issue, the Honeywell Account Manager is on my side of the table – not across the table like some vendors are. That is a real plus.”

- Supervisor from a large refinery installation

#### Background

Many refining operations have been producing energy for many years. The control systems for these installations have transitioned over time. Honeywell’s legacy control systems have contributed significantly as these systems have been updated to the latest technology.

#### Benefits

The supervisor for a major implementation explained the anticipated benefits from upgrading the site’s TDC 2000 system to Experion PKS, including:



- Increased capability in calculations, function blocks, and controls – providing increased efficiency
- Improved graphics representation for operators – taking advantage of ASM type graphics
- Better support of advanced control and advanced regulatory control

“We have visitors come over to learn about the issues we addressed in going to Experion,” commented the implementation supervisor. “We have more than a dozen oil refineries, with a mix of Honeywell and another DCS supplier. Honeywell’s commitment to the migration path, in large part, helped us decide to stay with Honeywell. Management is paying attention to what we are doing with Experion PKS”.

#### Challenge

When the site’s control system personnel determined that the existing TDC 2000 system, which had been expanded over time to extend its capacity, was in need of an upgrade, they turned to Experion PKS. “Our TDC 2000 system, still an excellent system for us, is at capacity and couldn’t support any additional changes,” stated the implementation supervisor, regarding the need to upgrade the current system.

#### Solution

The site had implemented a 100% Experion PKS HMI/operator interface, allowing them to install the new units with minimal operator impact. “By going through the Experion HMI, we can not only bring in the TDC 2000 and TDC 3000, but also the Experion instrumentation as one interface to the operator console. So our operations can run the older units and the new units with the different versions of Honeywell instrumentation.”

The upgrade project was set up in multiple phases. Currently half way through the process, the implementation is progressing according to plan.

## Results

Because this upgrade was a phased process, the company's management was able to approve the concept and review progress every 18 months. The implementation supervisor reports that management has been pleased with the results to date. Management has been very supportive in continuing the process.

As a personal comment on his professional experience with Honeywell, the implementation supervisor commented: "In the early 70s, I graduated and went to work on a TDC 2000 system. It was one of the first commercial installations, and here I am nearly 40 years into my career, and the TDC 2000 is still out there operating and Honeywell still supports it.

For a while I was in a consulting role, and I saw a lot of other people with DCS installations from other suppliers. They were really stranded by their supplier, who would promote upgrades. *'Sorry, it's not backward compatible. You have to take care of that for yourself'* was the common message. Honeywell has done an excellent job in supporting the customer."

## About Experion PKS

Experion Process Knowledge System (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, this distributed control system (DCS) helps process manufacturers increase profitability and productivity. It's 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.

### For More Information

Learn more about Honeywell's products and services, visit our website [www.honeywellprocess.com](http://www.honeywellprocess.com) or contact your Honeywell account manager.

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