

# Modernizing a Honeywell TDC 3000 Infrastructure with Honeywell's World-Class Experion PKS Control System



## INDUSTRIAL DESIGN SOLUTIONS

In 2013, a large energy firm contracted control systems integrator Industrial Design Solutions to migrate the TDC 3000 control system running at one of their generating stations to the latest Honeywell Experion system.

### BACKGROUND

A large power generating utility came to IDS for assistance migrating their obsolete TDC 3000 control system to a new Honeywell Experion system. Plant personnel wanted to extend the life of their control system, improve troubleshooting and increase system reliability.

### SOLUTION

IDS worked closely with the utility and Honeywell to develop a state-of-the-art DCS migration solution. Along the way, IDS migrated HPM controllers to C300, while retaining existing Process Manager I/O (PMIO). Custom logic was either retained or improved, and the graphical interface was vastly updated to improve performance and become compliant with ASM standards.



- Fully customized process control solution, using redundant and secure Honeywell Experion PKS Infrastructure
- Easy-to-read system logic documentation using SAMA-style symbols in Control Builder
- Ensured compliance with NERC-CIP regulations
- Close-knit customer and IDS team that ensured a clean control system migration meeting customer needs

### THE BOTTOM LINE

IDS works closely with clients to provide major control system upgrades within plant schedules and budget constraints, ensuring customers are 100% satisfied 100% of the time.

#### SOLUTION BENEFITS

- Fully customized Honeywell-based process control solution
- SAMA-style symbols used in all C300 logic for live system documentation
- Improved compliance with NERC-CIP industry standards

#### SOLUTION ROI

- Extended equipment life reduces risk of unplanned outages and improves reliability
- NERC compliance reduces risk of audit failures
- Modernized troubleshooting infrastructure reduces maintenance costs

#### SOLUTION PLATFORM

- Honeywell Experion PKS control system with C300 controllers
- Combination of C300 I/O and Process Manager I/O
- Up-to-date Windows-based DCS with server and workstation virtualization

**Project Duration: 18 months**

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