Objectivity Case History

Customer Information

| Customer: | Honeywell, Inc. |
|---------------------|-------------------------|
| Industry: | Manufacturing |
| Application Domain: | Training and Simulation |

Overview

The Honeywell SCADA TRAINER system is a state-of-the-art dynamic process simulator specifically designed for the process industries. It is the most technologically advanced simulator on the market today, and has a wide range of applications that make it an extremely useful tool throughout the life cycle of a plant, from the design stage to full operation.

The simulator is a collection of proprietary programs used to build and run a simulation model that represents the dynamic operation of a process, its controls, and logic. The software and model reside in a simulation computer that communicates through an interface device to a distributed control system (DCS) operator console computer terminal, or personal computer, depending on the intended use.

The high-fidelity simulation model can be used for process design; operating strategy development; process troubleshooting; and regulatory, sequencing, and supervisory-control strategy testing. When training-related exercises are added, the system can be an invaluable tool for training operators and maintenance personnel. Graphical displays and model building programs make the simulator easy to use and an "open system" that can be maintained by the user.

Benefits

The TRAINER system can provide the following benefits:

For Process and Plant Management

Smoother and faster start-ups Production goals reached earlier and exceeded Optimum production levels determined and maintained Fewer and shorter shutdowns Lower maintenance costs Improved product quality Fewer emissions and spills

For Training Managers

Reduced training time Improved effectiveness of SPC, SQC, and training program Replacement personnel trained easily and quickly Operator skills maintained and upgraded as required

For Operations and Maintenance Personnel

Operators become thoroughly trained in:

Initial plant start-up and handling infrequent start-ups and shutdowns Process control concepts and how they relate to specific process operations The procedures required to resolve process upsets before they occur

Maintenance personnel are trained in:

How to diagnose and correct problems Preventive and routine maintenance procedures

For Process and Control Engineering Personnel

New plant designs quickly and easily assessed Process designs fully tested before construction DCS configurations fully tested before start-up DCS design and graphics changes easily validated Plant start-up plans developed and tested Advanced control strategies developed

Status:DeployedPlatform:Dec VMS today. Will be moving to NTCompiler:C++Other Tools:C++

Buying Criteria

* Platform support Dec VMS based on end-user customers requirements.

* Objectivity's commitment to support Dec VMS (this has changed over the years due to project demands)

* Scalability

Contact Information

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