Well trained

Honeywell’s UniSim operator training simulator (OTS) has provided a competency-based training facility for plant technicians at National Grid’s Isle of Grain LNG facility

National Grid operates an LNG importation and storage facility at the Isle of Grain in the UK, which is one of the largest LNG facilities in the world. This facility is the first LNG importation facility currently flowing into the UK and has the capacity to export around 12 percent of UK demand. As the facility continues to expand, part of the phased approach to implementing next-generation technology included new control and safety systems from Honeywell.

National Grid says it has improved operations and reduced training time at its LNG facility with UniSim training in dealing with plant trips and failures.

“With new control and safety systems, came a need to alter the design models in order to train employees on the new system. National Grid used its operational knowledge and Honeywell’s analysis to help develop new models that matched the actual plant. Having used Honeywell’s Experion control systems, it was a natural extension to use Honeywell’s UniSim Operations training simulation software for its advanced operator training solution for the Isle of Grain LNG receiving and regasification plants.

With the combination of Honeywell’s UniSim, Experion Process Knowledge System (PKS) and safety systems, National Grid has gained an advanced training simulator that provides a realistic view of its facility. In addition to saving time and money, benefits from the UniSim training simulation solution include:

- Comprehensive training for operational personnel
- Increased understanding and on-the-job training in dealing with plant trips and failures
- Helping to generate standard procedures for plant operations and dealing with emergency scenarios

Revised design that accurately represents the new LNG facility with safety and simulation models incorporated

National Grid is an international electricity and gas company, and one of the largest investor-owned energy companies in the world. It plays a vital role in providing energy to millions of customers across Great Britain and the world. This facility is the first LNG importation plant operations and dealing with emergency scenarios.

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With the efficient, dedicated employees of Honeywell, National Grid has improved operations and reduced training time at its LNG facility with UniSim training in dealing with plant trips and failures. The UniSim solution models routine operational scenarios, including start up operations (cold start), normal shutdown operations, normal steady-state operations and emergency operations.

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With the efficient, dedicated employees of Honeywell, National Grid has improved operations and reduced training time at its LNG facility with UniSim training in dealing with plant trips and failures. The UniSim solution models routine operational scenarios, including start up operations (cold start), normal shutdown operations, normal steady-state operations and emergency operations. In addition, the system is capable of simulating operations dictated by process disturbances and equipment failures introduced by the instructor. Honeywell provides rigorous modeling, evaluating and enhancing performance of plant assets prior to initial operations and throughout a customer’s plant lifecycle.

Goad concluded: “We look forward to the long-term payback we expect from this advanced simulation solution and it is a pleasure to work with the efficient, dedicated employees of Honeywell.”

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