When I think of Honeywell I think of solutions that improve both efficiency and reliability. Honeywell emerged as our preferred vendor of choice because of its direct LNG experience and expertise in that field. Honeywell’s suite of products helped Atlantic LNG both stabilize operations and enhance our production.”

Dawn Beeke, Instrument and Controls Engineer, Atlantic LNG

Benefits
Atlantic LNG Company of Trinidad and Tobago has four liquefied natural gas (LNG) trains at its facility that have been successfully commissioned and operational. However over the years, multiple modifications were made to the trains to optimize production to fully utilize the basic and advanced regulatory controls available on the DCS. As part of a recent strategic initiative, Atlantic LNG realized the need for more sophisticated technology such as Advanced Process Controls (APC) on its trains. As the first plant to implement an APC system on an LNG plant utilizing the ConocoPhillips Optimized Cascade Process, Atlantic LNG turned to Honeywell’s APC solutions to stabilize operations, increase efficiency, reliability and production.

Atlantic LNG called upon Honeywell to help develop an action plan and implement the APC project resulting in the following benefits on Train 1:

- Increased accuracy and reliability of information
- Operators able to maintain stable targets and improve production rates via plug and play testing with Profit Controller
- Hands-on testing and analysis provided little disruption to plant via use of Profit Controller models and real-time analysis before trains commissioned and optimal limits maintained
- Increased reliability of trains by troubleshooting diagnostics as needed with gas availability guaranteed and trains operating at normal full rates
Atlantic LNG is a liquefied natural gas operating company generating value for shareholders, employees and communities in which they operate. The company is dedicated to the safety of its people and operations and driven to succeed and continually improve, highlight safety of people and operations.

Challenges
As part of a strategic initiative Atlantic LNG looked to improve its reliability and operational efficiency. Tasked with that challenge, the plant knew it needed to modernize its facility and LNG trains.

In order to upgrade the technology, Atlantic LNG investigated advanced process controls and looked at Train 1 to see if any benefits could be provided by the use of APC. The plant looked to enhance production on two product streams – LNG and NGL – and commenced with a benchmark study on Train 1.

“We wanted to forge new ground with the implementation of a new APC system to help Atlantic LNG optimize its production and needed to select a partner that could take our APC building blocks and arrange them in a way that would help ensure reliable and safe operations and simultaneously increase our production,” said Dawn Beekee, Instrument and Controls Engineer, Atlantic LNG.

Solution
As the first plant to implement an APC system on an LNG plant utilizing the ConocoPhillips Optimized Cascade Process, Atlantic LNG conducted a search of partners and invited five to present. Based on the report that came back and the company’s analysis tree, Honeywell emerged as the preferred vendor because of its LNG experience, domain expertise and assigned personnel.

More Information
For more information on Honeywell Enraf Solutions or any of Honeywell’s Products, Services, or Solutions, visit our website www.honeywell.com/ps, or contact your Honeywell account manager.

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