SMARTPLANT® CONSTRUCTION IMPRESSES HYUNDAI ENGINEERING & CONSTRUCTION

Intergraph® construction planning solution to be implemented at leading Korean EPC

IDENTIFYING GOALS

Hyundai Engineering & Construction (HDEC) is one of Korea’s leading engineering, procurement, and construction firms, with experience in project execution across a range of industries. This includes process plants (such as oil refineries, petrochemical, gas processing plants, and gas-to-liquids projects) and industrial plants (including iron and steel mills, and smelter facilities).

The company has been responsible for a number of key construction sites in Korea and the Middle East over the past decade, including Shell’s Qatar Pearl gas-to-liquid project and Saudi Aramco’s Karan gas facilities project in Saudi Arabia.

HDEC’s vision is to pioneer advancement in the global plant market through a combination of creativity and innovative technology.

OVERCOMING CHALLENGES

The construction phase of today’s increasingly complex projects involve thousands of workers, millions of details, and numerous complex variables, such as labour, materials, weather, and schedules. In recent times, HDEC has been investigating new technologies and solutions that help to manage the billions of bits of data required to complete a project on time and budget.

HDEC was already using several other Intergraph® solutions to improve performance in areas such as design, but wanted to investigate ways to enhance productivity during construction. As such, in November 2014 the company commenced a pilot implementation of SmartPlant® Construction, Intergraph’s integrated solution for construction planners. It offers dynamic work package planning, construction sequencing, and reporting to streamline and integrate engineering for improved efficiency on capital projects.

REALIZING RESULTS

The pilot project was completed in January 2015, with the final report issued within HDEC during February. The feedback was exceptional, according to a manager from the IT planning team.
“Increasingly, our customers want to see their construction status in real-time and manage sites through data-driven systems, with no inconsistencies. We are confident that SmartPlant Construction will help us to achieve this,” said the manager.

“We expect the end result to be improved project execution and improved operational readiness for handover to the owner.”

**MOVING FORWARD**
For the rest of 2015, HDEC intends to provide its engineers with training in both SmartPlant Construction and SmartPlant Foundation, Intergraph’s solution for plant information management, with a view to a full implementation in the near future.

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**ABOUT INTERGRAPH**
Intergraph helps the world work smarter. The company’s software and solutions improve the lives of millions of people through better facilities, safer communities and more reliable operations.

Intergraph Process, Power & Marine (PP&M) is the world’s leading provider of enterprise engineering software enabling smarter design and operation of plants, ships and offshore facilities. Intergraph Security, Government & Infrastructure (SG&I) is the leader in smart solutions for emergency response, utilities, transportation and other global challenges.

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