CASE STUDY

North American shipbuilder ends 20-year suspension of naval shipbuilding

Key facts:

Project Location: North America

Octave products used: Intergraph Smart Yard, Forte 3D *(Intergraph Smart 3D),* Facets P&ID *(Intergraph Smart P&ID),* Facets Electrical *(Intergraph Smart Electrical),* Forte Reference Data *(Intergraph Smart Reference Data),* SmartPlant Foundation, OnSite Production *(Intergraph Smart Production Powered by NESTIX)*

Project summary

In 2016, a Tier 1 North American shipbuilder and fabricator reached an important milestone in its multibillion-dollar project by choosing Octave solutions for steel cutting.

This project involved the production of six ships, the first to be delivered in 2018. These ships are capable of sea-borne surveillance and of moving through icy Arctic waterways. Each ship is more than 100 meters long and armed with remote-controlled machine guns. This project is expected to increase security and help boost the economy.

Our solution

Cutting steel is an important milestone in any marine project since it means meeting a payment schedule. Forte 3D and Octave schematics capabilities were used for the detailed design. The production planning and engineering was prepared with Forte 3D as well. OnSite Production Planning was used to manage the shop floor as well as the NC machine interaction forfull automation.

Octave solutions enable digital transformation and help prepare shipbuilders for the future. Intergraph Smart Yard is Hexagon's next-generation solution that provides an extensive portfolio of integrated, preconfigured solutions for yards' key work processes. With Smart Yard, this shipbuilder was able to consolidate project information and processes and implement solutions that have reduced the total cost and improved productivity.

Dealing with Business Issues & Risks

- Compress schedule & control budget
- Minimize rework with efficient resource planning
- Eliminate wasted material & overrun
- Enhance quality management
- Integrate different disciplines into one platform
- Streamlined processes improve transparency
- Access to right information

Why Intergraph Smart Yard?

Intergraph Smart Yard brings together your company's engineering, procurement, project planning, fabrication and construction within a single collaborative knowledge-management environment. Smart Yard leverages a portfolio of integrated preconfigured solutions, addressing yards' work processes, reducing total cost and improving productivity across the entire project lifecycle. Large projects involve thousands of workers, millions of details and complex variables. The challenge: complete projects on time and within budget. With Smart Yard, you can consolidate project information and processes and implement solutions that reduce the total cost and improve productivity.

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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