CASE STUDY

Octave Tempo Operations Management used by LNG plant to address regulatory, safety requirements

Key facts:

Company: Singapore LNG Corporation

Website:
www.sing.com.sg/

Industry: Liquefied Natural Gas (LNG)

Octave product used:
Tempo Operations Management
(j5 Operations Management Solutions)

Key benefits:

- Provided comprehensive, unified suite of operations, process safety and compliance management applications with consistent, intuitive interfaces
- Tempo Operations Management is aligned closely with the plant's unique requirements and SLNG's flexibility allows configurations to be improved
- Correct plant data is visible to all, including operators, supervisors, maintenance teams, Health, Safety and Environment officials and management
- Automated routine tasks, processes and reports, reduced error risk, accidents and losses while saving time and costs
- Simple, client-server architecture supplied by single vendor, translating into lower maintenance costs and improved system reliability

More than 95% of Singapore's electricity is generated using imported natural gas. Before the SLNG terminal was built, Singapore's only option was to import natural gas via pipelines from Malaysia and Indonesia. The SLNG terminal is, therefore, critical to Singapore's energy security, as it allows the country to import natural gas from anywhere in the world.

The problem

The requirements for the new SLNG terminal were substantial and diverse. In a context of demanding deadlines for the launch of the terminal, strict safety regulations and budget constraints, SLNG needed a software system to meet operations, process safety and compliance requirements including:

- A secure and professional operations logbook and shift handover application for managing operational and maintenance records of activities and personnel
- A rigorous permit to work application to facilitate safety
- A ship unloading application to manage the delivery of LNG from the ships
- A sendout management application for managing outward delivery to the main pipelines
- A comprehensive management of change (MOC) application so that changes to the plant's operations would be carried out according to strict procedures
- A comprehensive incident management application to record and learn from every incident and near miss that would occur
- A compliance management application to help achieve legal and regulatory compliance and to submit required reports to state and corporate authorities

SLNG required that these applications would interact seamlessly with each other and with other plant software in order to eliminate human error and the double capture of information, for example, in relation to:

- Asset information, work notifications and work orders, as maintained in its Computerized Maintenance Management System (CMMS)
- Usernames and passwords, as maintained in the active directory
- Reliability system information
- Production planning system data

How Tempo Operations Management solved the problem

Tempo Operations Management was selected to address SLNG's strict regulatory and safety requirements:

- Incidents and near misses are tracked and managed by **Tempo Incident Management** (formerly j5 Incident Management), all the way from their recording and investigation to regulatory reports
- **Tempo Management of Change** (formerly j5 Management of Change) manages MOCs of different types and sizes through successive stages from the origination of the MOC through to commissioning
- **Tempo Control of Work** (formerly j5 Control of Work) ensures that the correct procedures are carried out for issuing work permits and managing the work on site

Other custom Tempo Operations Management applications were tailored to the expressed needs of SLNG:

- **Tempo Operations Managment** ship unloading manages all the steps in the unloading process, from the ship's arrival to its departure
- **Tempo Operations Management** sendout management manages outward deliveries of LNG, including the validation of planned versus actual quantities shipped

These Tempo Operations Management solutions operate seamlessly in a unified, web browser-based user interface powered from a single, central server. The suite can be accessed from any web browser that is connected to the site's LAN. Tempo Operations Management interfaces seamlessly with third-party software where required.

Tempo Operations Management was delivered in time for the first shipment of LNG, and within budget.

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, propert, ayd 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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