



CASE STUDY

Improved operations management at liquefied natural gas (LNG) and upstream oil and gas company

Key facts:

Company: INPEX Corporation

Website: www.inpex.co.jp

Industry: Liquefied natural gas (LNG) and upstream oil and gas

Country: Japan

Octave products used: Tempo Operations Management (*j5 Operations Management Solutions*)

Problem

INPEX sought to adopt an electronic shift handover system in time for the operational startup of the Naoetsu LNG Terminal, an LNG receiving terminal. The company also sought to replace the paper-based shift handover system adopted at its existing oil terminals and oil and gas production facilities installed on natural gas trunk pipelines.

These were the issues caused by INPEX's paper-based shift handover system:

1. It was a challenge to standardize work descriptions in the paper-based logbooks because certain sections of the logbooks required free-text entries, which resulted in discrepant details.
2. It was time-consuming to search for information, and it was also difficult to share information across the different sites involved in gas production activities and services.
3. It was difficult to ensure consistency in how each activity including planning, logging, reporting, analysis and improvement was presented at shift handovers across the different sites.

After a thorough evaluation process, INPEX selected Tempo Operations Management as a platform to digitally transform these processes.

Solution

The Octave Tempo Operations Logbook (formerly j5 Operations Logbook) ensures that work activities are entered when they occur at INPEX sites. Additionally, the Tempo Operations Logbook builds a comprehensive record of activities that are categorized by specific operational areas to ease sorting and reporting. This information is automatically collected and presented in the Octave Tempo Shift Handover (formerly j5 Shift Handover).

Tempo Shift Handover provides individual reports for operators, console operators and supervisors. Additionally, Tempo Shift Handover follows a strict procedure to ensure consistency of operations.

Octave Tempo Work Instructions (formerly j5 Work Instructions) provides a framework for the planning, creation, execution and reporting of work activities. Using this system, many diverse instructions are handled efficiently across sites, enabling them to strictly adhere to the plan do check act (PDCA) cycle. Additionally, Tempo Work Instructions ensures that work activities are carried out regularly (e.g., every 24 hours) or follow a specific schedule (e.g., on the first Monday of the month).

Description: INPEX is Japan's largest oil and gas exploration and production (E&P) company and is involved in approximately 70 projects in more than 20 countries.

INPEX proactively undertakes exploration, development and production activities in order to contribute to a stable and efficient energy supply as well as global economic growth and social development.

Benefits of Tempo Operations Management

Tempo Shift Handover ensures that all work activities are carried out consistently and are provided with relevant data in every shift across all operations. This leads to significant benefits, such as avoiding misunderstandings and incidents, improving planning and production efficiency, enhancing the transfer of knowledge and promoting communication and teamwork.

Tempo Work Instructions enforces a functional and efficient PDCA work management system across all divisions and sites.

Overall, Tempo Operations Management offer considerable benefits including:

- Improved overview of work activities
- Improved execution of work activities through to completion
- Reduced processing with the use of templates
- Improved overview of tasks
- Quick identification of challenging and incomplete tasks
- Improved coordination between workers
- Consistent logging of activities for future optimization
- Quicker feedback on the progress of activities



"The introduction of Tempo Operations Management at INPEX helped improve and enhance operation management efficiency. Tempo Operations Management has contributed to the efficient and stable operation of INPEX assets. Information is standardized and accurate and therefore easier to retrieve. We plan to introduce new operational improvement applications in the near future."

Jinsen Li, general manager
Information Management and Technology Unit, INPEX Corporation

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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