



INPEX Corporation

Key Facts

Company: INPEX Corporation

Website: www.inpex.co.jp

Industry: Liquefied Natural Gas (LNG) and Upstream Oil and Gas

Products Used:

- j5 Operations Management Solutions (j5 OMS)

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.

The Problem

In 2012, INPEX sought to adopt an electronic shift handover system in time for the operational startup of the Naoetsu LNG Terminal, an LNG receiving terminal that commenced operations in 2013. The company also sought to replace the paper-based shift handover system adopted at its existing oil terminals, 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 j5 OMS as a platform to digitally transform these processes.

How j5 OMS Solved the Problem

The **j5 Operations Logbook** ensures that work activities are entered as and when they occur at INPEX sites. Additionally, the j5 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 j5 Shift Handover Report.

j5 Shift Handover provides individual reports for operators, console



operators and supervisors. Additionally, j5 Shift Handover follows a strict procedure to ensure consistency of operations.

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 PDCA (Plan Do Check Act) cycle. Additionally, j5 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).



The introduction of j5 at INPEX helped improve and enhance operation management efficiency. j5 has contributed to the efficient and stable operation of INPEX assets. Information is standardized and accurate and therefore easier to retrieve.

Jinsen Li
General Manager
Information Management & Technology Unit
INPEX Corporation

Benefits of j5 OMS

j5 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.

j5 Work Instructions enforces a functional and efficient PDCA work management system across all divisions and sites.

Overall, j5 OMS 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
- Early detection of challenges and incomplete tasks
- Improved coordination between workers
- Consistent logging of activities for future optimization
- Quicker feedback on the progress of activities

About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.9bn EUR. Learn more at hexagon.com and follow us @HexagonAB.