



INPEX CORPORATION, AUSTRALIA AND JAPAN

Key Facts

Company: INPEX Corporation

Website: www.inpex.co.jp

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

Products Used:

j5 Operations Management Software

THE PROBLEM

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.

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 and valve stations installed on natural gas trunk pipelines.

The challenges posed by the paper-based shift handover system were as follows:

- 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.
- 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.
- 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 Operations Management Software as a solution.





BENEFITS OF j5 OPERATIONS MANAGEMENT SOFTWARE

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.

j5 Operations Management Software offers considerable benefits including:

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

HOW j5 OPERATIONS MANAGEMENT SOFTWARE PROVIDED THE SOLUTION

The j5 Operations Logbook ensures that all work activities are entered as and when they occur at every INPEX site. 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. 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 all the sites, enabling them to strictly adhere to the PDCA (Plan Do Check Act) cycle.

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).

CUSTOMER TESTIMONIAL

“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. We plan to introduce new operational improvement applications in the near future.”

— Jinsen Li

Information Management & Technology Unit General Manager
INPEX Corporation

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.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

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.