

BUSINESS CASE

Enhanced Inspection Efficiency and Cost Savings with IMS PEI

Product: IMS PEI
Sector: Oil & Gas
Subsector: Downstream

THE NEED

Thaioil is one of Thailand's leading integrated petroleum and petrochemical companies. The company's primary business activities include crude oil refining, petroleum product manufacturing, and the production and distribution of petrochemical products.

Thaioil derived value from Cenosco across three different areas. Firstly, there was room for improvement in their inspection management system, which had multiple modules and tools spread across different areas. Secondly, Thaioil wanted to transform their manual inspection planning processes and execute them more efficiently. Lastly, the company wanted to balance the volume of inspections during routine operations and major turnaround (MTA). These areas presented opportunities for enhancing their inspection management processes, optimizing resources, and further improving operational effectiveness, which Cenosco successfully addressed.



THE RESULTS

To address the areas of improvement identified by the company, the proactive inspection team at Thai Oil recommended considering the implementation of Cenosco's IMS PEI, a cloud-based software solution for Pressure Equipment Integrity.

Centralized inspection management system

By implementing IMS PEI into their operations, Thailoil's inspection team was able to benefit from a comprehensive, fully digitalized, and integrated system. The introduction of this system provided them with advanced capabilities, including accurate corrosion prediction and monitoring. The utilization of IMS PEI enhanced their ability to proactively identify and mitigate potential risks, leading to improved operational reliability and safety within their facilities.

Efficient Digital inspection test planning

Upon introducing a Digital Inspection Test Plan within IMS, the company achieved cost savings by streamlining their inspection processes and optimizing resource allocation. This efficiency gain allowed Thailoil to allocate their resources more effectively and focus on other critical tasks. Finally, the adoption of IMS PEI enabled faster inspection execution, which allowed Thailoil to respond swiftly to severe Corrosion Under Insulation (CUI) problems.

Balanced inspection volume during routine and MTA

Thailoil implemented IMS PEI's s-IDAP (Shell Inspection Data, Analysis, and Plotting) and EVA (Extreme Value Analysis) solutions, which resulted in improved inspection effectiveness and optimization in the inspection scope. The integration of s-IDAP within IMS PEI allowed for optimum inspection work scope.



About Cenosco

Meet the IMS Suite: Asset Integrity the way engineers want

The IMS suite runs on cloud-based, mobile-friendly, and highly configurable technology. The suite comprises multiple products to cover a range of asset-specific needs. The IMS platform calculates optimal intervention periods and lays out efficient maintenance strategies. Our predictive maintenance software is used widely across asset-intensive industries, including chemicals, oil & gas, pulp & paper, and renewable energy.



With IMS you will..



Upgrade to predictive maintenance

Upgrade your maintenance maturity from reactive to predictive.



Manage Inspections

Never miss an inspection again, thanks to Inspection Data Management.



Gain insight

Gain insight into bad actors and equipment performance with easily accessible and accurate data.



Track all events

Track all events in an equipment's lifetime, including inspections, leaks, and temporary repairs.



Adopt Risk-Based Inspection

Adopt a practical and transparent Risk-Based Inspection approach (Shell's RBI).



Visualize

Visualize your data in 2D and 3D (digital twin).



Use on all devices & offline

Access your data anytime and anywhere. IMS works on all devices, online or offline.



Automate reporting

Streamline your reporting process with automated reporting.



Bulk import and export

Save time with bulk data import and export wizards, along with other bulk actions.



Integrate

Interface with other platforms, tailored to your specific requirements.

Trusted by world leaders



Find out more about IMS



Our Solutions

Unify your asset integrity management capabilities

IMS PEI

IMS PEI provides you with the overall integrity status for pressure and civil equipment. Determine when and what to inspect on your pressure equipment using RBI, advanced corrosion calculation, and analytical tools. Capture your inspection history to have a proper audit trail of your inspection results.

[FIND OUT MORE](#)



IMS PLSS

IMS PLSS provides you with the overall integrity status of your pipelines. It records the pipeline design data in detail and the user can specify differences in design data by creating different sections of the pipeline. It performs ILLI and fit-for-service calculations based on intelligent pigging data and supports full scheduling and history recording in alignment with IMS PEI.

[FIND OUT MORE](#)



IMS RCM

IMS RCM optimizes the preventive maintenance plans of your asset. It does this by supporting the user in prioritizing equipment based on risk. Using the equipment's risk profile, the user determines the best maintenance plan for said equipment, either by defining this manually or using library functions.

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IMS SIS

IMS SIS offers maximum flexibility for users, as the HAZOP, LOPA, and SIF design verification modules can be used as stand-alone modules or as fully integrated modules where data from one module flows flawlessly into the downstream module.

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IMS FCM

Flanges are one of the main causes of leaks. With IMS FCM you can manage your flanges using a strict guided maintenance protocol on the basis of tool usage, tension, and torque calculations while keeping track of all assembly and disassembly work done on your critical flanges.

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IMS CIVIL

Manage civil integrity by defining when and what to inspect or repair, using RCM & RBI adopted for civil degradation dynamics.

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Cenosco can help you identify your needs and requirements.

Get in touch for a free consultation.

[Contact Us](#)

