

Real-Time Visibility for Safer Nuclear Operations

Executive Summary

In a European nuclear facility, operators needed real-time awareness of thousands of safety-critical work orders. Information was spread across SAP PM, AVEVA PI System and engineering drawings, making it difficult to detect work conflicts or understand safety impacts.

Assai Viewport brought maintenance, process and engineering information together in a single governed platform, giving operators and engineers a clear view of ongoing work, affected systems and potential risks. This enabled faster decisions and safer maintenance planning across the facility.

Results

Area	Outcome
Active work orders visualized	3,500+
Linked P&IDs	1,400
Tagged items connected	300,000+
Primary benefit	Improved insight & safety

The Challenge

Managing large volumes of maintenance activities in a nuclear facility created blind spots and safety risks.

- Work information spread across SAP PM, AVEVA PI System and engineering drawings
- Limited ability to detect simultaneous work that could create safety conflicts
- Manual checks required to correlate work orders and permits
- Lack of real-time visibility into affected systems and maintenance impact

The operator needed a single engineering information environment that brought maintenance and plant information together to support safer, more informed operational decisions.

| The Assai Solution

Assai Viewport was implemented to provide a live operational view of maintenance activities. The platform connected SAP PM, AVEVA PI System and engineering documentation, allowing teams to see real-time plant status linked to P&IDs. This replaced manual checks with a governed environment that keeps information synchronised and available to every operator and engineer.

Key capabilities included:

- Real-time connection to SAP PM and AVEVA PI System
- Live visualisation of work activities on P&IDs
- Intelligent recognition of tags and equipment items
- Cross-system access to maintenance and engineering information
- Immediate insight into simultaneous work and safety risks

Implementation enabled operators and engineers to identify work conflicts faster, improve coordination across maintenance activities and strengthen operational safety through real-time access to trusted engineering information.

| Project Insight

Assai Viewport delivered a single trusted operational view that improved coordination and enabled safer, data-driven maintenance planning.

| Strategic Value

By bringing maintenance, safety and engineering information together in one governed environment, the operator gained continuous situational awareness and reduced the risk of conflicting work.

The operator established a scalable engineering information foundation that supports operational awareness, maintenance planning and continuous reliability improvement across its nuclear assets.