

IOW Module PS Asset Integrity Manager



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Integrity Operating Windows (IOW)

Process Industry has a long history of standards and best practices that have recommended identifying damage mechanisms affecting operating assets. Through this identification process, owner operators have been able to target appropriate areas for inspection using the right techniques while prioritizing by risk using methods such as Risk-Based Inspection (RBI) and Reliability Centered Maintenance (RCM).

Complimenting such methods, Integrity Operating Windows (IOW) provide insight and proactive identification on ways operators can control the degradation of their assets to predictable and reasonably low susceptibilities. IOW allow plant operators to understand the parameters driving the damage mechanisms affecting the integrity of their assets, and through proper monitoring and alerts, take appropriate actions within a specified time frame to return operations to safe limits.

Key benefits of IOW include

- Monitor and control critical parameters driving damage on assets.
- Reduce downtime due to failures.
- Track exceedances and follow up activities.
- Optimized inspection, testing, and preventive maintenance costs.

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PS Asset Integrity Manager IOW Module

PS Asset Integrity Manager IOW Module is an integrated set of functionalities of PS Asset Integrity Manager that leverages existing asset hierarchies and master data. It features capabilities to import PS Asset Integrity Manager RBI results as a starting point or begin from scratch as needed. The PS Asset Integrity Manager IOW Module enables the methods and procedures of establishing and managing IOW's according to API Recommended Practice (RP) 584.

PS Asset Integrity Manager IOW Module Key Features

- IOW approach in accordance with API RP 584
- Define damage mechanisms on the asset component level.
- Import pre-defined damage mechanisms from RBI method.
- Selection of operating parameters and associated operating limits for each IOW.
- Indication of predetermined actions by responsible personnel when exceedances occur and configurable auto-generated activities.
- Visualization of IOW status as asset health indicator
- Role-based IOW actions management.
- Dashboards and reports for key IOW KPIs.

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