CCD / IOW

Corrosion Control Document / Integrity Operating Windows

CCD / IOW Integrates with this OESuite® Module

Asset Analysis

In process environments where corrosion, cracking, and erosion pose significant threats, proactive analysis and mitigation are essential to maintaining business continuity. The **Operational Sustainability® OESuite® Corrosion Control Document (CCD) / Integrity Operating Windows (IOW) Feature** protects critical assets, reduces risk, improves reliability, and prevents containment breaches caused by insufficient process control by establishing and implementing limits on process variables.

A core component of the **OESuite® Asset Analysis Module,** the **OESuite® CCD / IOW Feature** provides a structured, enterprise-grade workflow to identify damage mechanisms in corrosion loops, define IOWs, and transform engineering recommendations into monitored, actionable tasks.

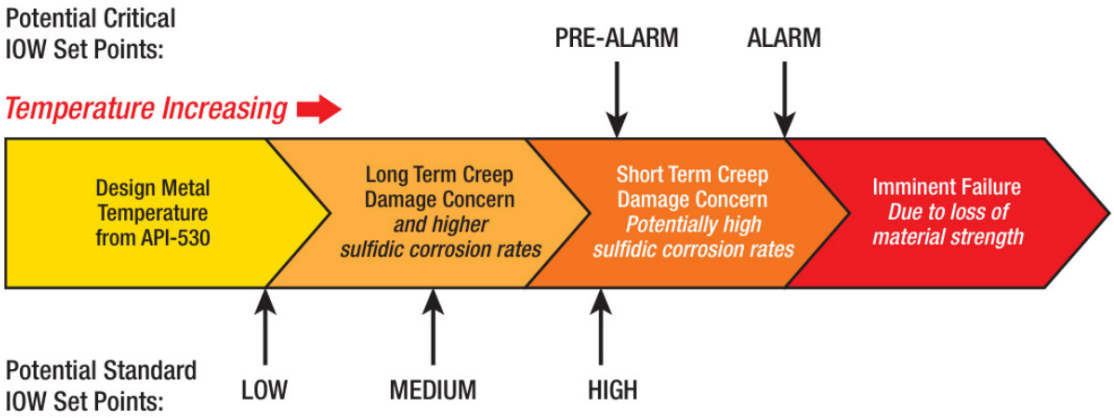

Figure 1 — Example of Critical and Standard IOW Limits

Specifically designed to guide technical teams through these complex studies, the **OESuite® CCD / IOW Feature** also helps users:

- Establish robust strategies for inspection, non-destructive examination, and process monitoring to effectively prevent the loss of containment
- Identify corrosion loops and circuits, assets, asset components, damage mechanisms, documents, material specifications, and other necessary data connected to process streams with fluid operating conditions
- Suggest IOWs based on damage mechanisms, assign asset priorities, and select IOW tags for monitoring
- Identify damage mechanisms and share findings with other OESuite® modules

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Corrosion Control Document / Integrity Operating Windows

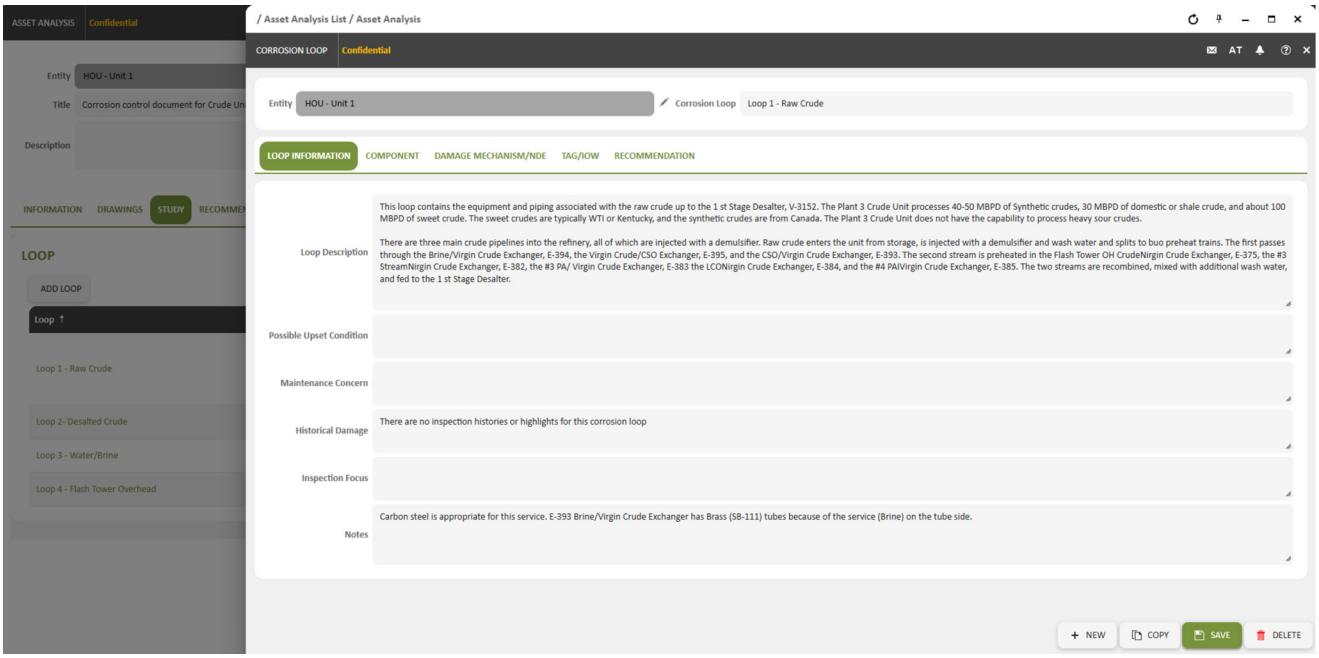

Figure 2 — CCD / IOW Analysis by Corrosion Loop

OESuite® transforms CCD and IOW studies from static engineering documents into a dynamic, living integrity management process. By leveraging a single, unified architecture, we integrate engineering analysis, inspection planning, process monitoring, and corrective actions. Core capabilities of OESuite® include:

- Centralized knowledge, eliminating fragmented spreadsheets by centralizing CCD studies and engineering knowledge
- Comprehensive mapping across assets, corrosion loops, components, damage mechanisms, material specifications, and process streams in an integrated system
- Proactive monitoring to detect operational issues before they escalate, allowing teams to prioritize assets and select specific tags for active, real-time monitoring
- Regulatory and industry alignment through an **API RP 584**-aligned platform to ensure process upsets and feedstock variability are accounted for
- Dynamic response to empower field operators with relevant, real-time asset condition information, ensuring appropriate actions as conditions change.
- Interoperability to seamlessly determine the impact of sustained deviations on operating temperatures and pressures, and manage recommendations after, through integration with other OESuite® modules
- Prioritization of each study finding allows the team to clearly rank actions, ensuring resources are directed where they are needed most.
- End-to-end execution to ensure recommendations spawn actionable items and management system records
- **Seamless closeout** of actionable items (i.e., inspection activities, corrective actions, work requests, etc.) across OESuite® modules

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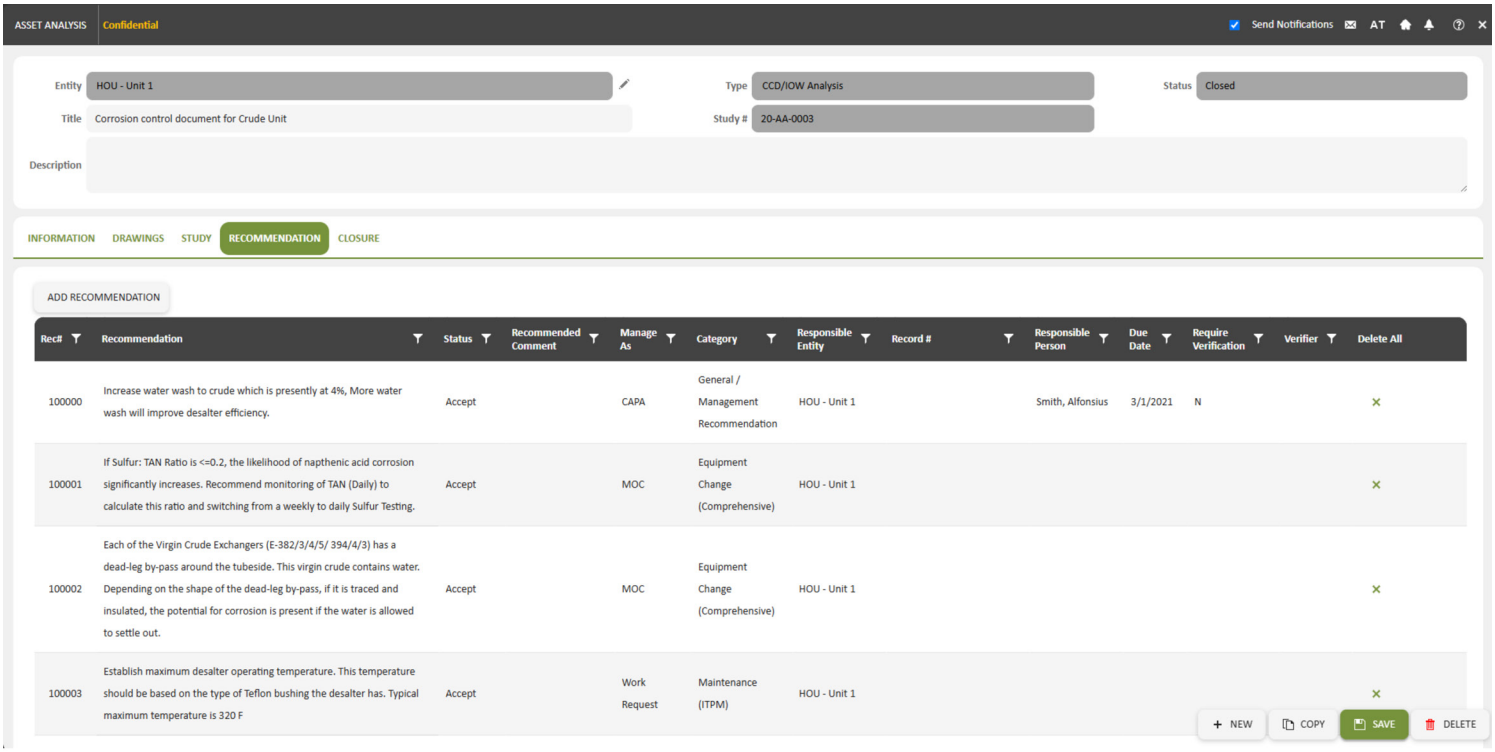

Figure 3 — OESuite® CCD / IOW Recommendations

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CCD / IOW

Corrosion Control Document / Integrity Operating Windows

The Asset Analysis Module Integrates With These OESuite® Modules & Frameworks:

- Risk-Based Inspection
- Work Management + Mobile
- Task & Compliance Management + Mobile
- Corr. & Preventive Action Item Mgmt. + Mobile
- Document Management + Mobile
- Portfolio & Project Management
- Management of Change + Mobile
- APM Framework
- Process Safety Framework

These are the core functions in all OESuite® Modules:

- Ad Hoc Reporting
- Archiving
- Asset Registry / Navigation
- Audit Trail
- Calculation Engine
- Coordination Compliance
- Configurable Notifications
- Damage Mechanisms
- Data Export / Import
- Document Links / Attachments
- Form Builder
- Integration / Connectors
- Multi-Lingual / International Formatting
- KPI Manager
- Material Library
- Mobility
- Module and Hierarchy Specific Security
- My Obligations / Calendar
- My Subscriptions
- Obligation Reassignment
- OE View
- Planning / Scheduling
- Portal
- RACI Chart
- Redlining
- Report Builder
- Risk Ranking
- Risk Registry
- Robust Search
- Single Sign On (SSO)
- Standard Reporting
- Tags
- Verification
- Visual Operations
- Workflow (Initiate, Approval, Execution, etc.)

For more information email us at info@DrivingOE.com or call (713) 355-2900.

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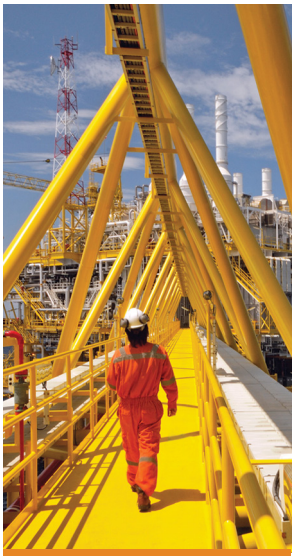
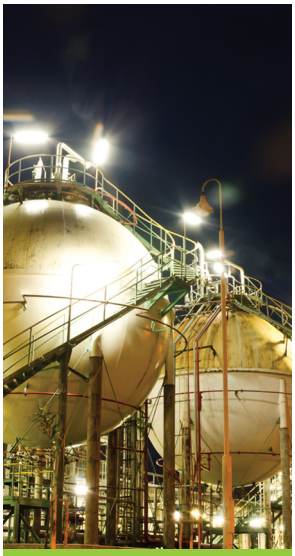
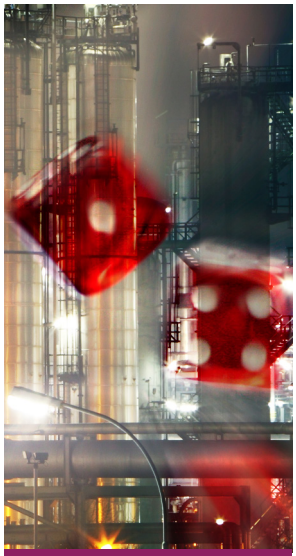

Workforce


Assets

Operations

Compliance


Risk

Operational Sustainability® makes operational excellence simple.

Succeeding in today's complex, highly regulated industries depends on how well your company manages enterprise risk to minimize enterprise losses and enable continuous improvement without putting your privilege to operate at risk. Our industry-leading, cloud-based, highly configurable OESuite® software, supported by our world-class advisory services and technical content, enables your company to achieve and sustain **operational excellence**. With an average of more than 30 years of industry experience each, our advisors can design a solution tailored to your company's culture and needs.

Learn how Operational Sustainability® can accelerate your journey to operational excellence through our industry-leading OESuite® software platform, technical content, and our industry experts. See our full slate of free webinars, workshops, white papers, detailed module information, and scheduled workshops online at **www.DrivingOE.com.**

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