Process Hazard Analysis / Process Risk Management

The Operational Sustainability, LLC® (OS) OESuite™ PHA / Process Risk Management (PRM) Module is a comprehensive solution for assessing and managing risk. Our comprehensive risk management solution allows users to create their own risk ranking matrix, while incorporating customized content (e.g., HAZOP guidewords, human factors checklists, facility siting checklists).

The PHA / PRM Module enables users to evolve the level of risk assessment applied and quickly pre-node using our embedded Redlining Function – no red pencil and scanner needed. Users can also add simple action items within PRM. If you are conducting a Management of Change (MOC), our interoperable PHA / PRM Module allows you to conduct risk assessments.

The PHA / PRM Module links Process Safety Information (PSI) from your file server, Microsoft SharePoint, or our Document Management / Redlining Module. Our interoperable Asset Registry Function allows physical assets to be linked to your nodes. You can also access your damage mechanisms from the Inspection Management Module.
Users can adjust columns to fit their culture, leverage our calculation engine for LOPA scenarios, utilize smart text, copy nodes and cells, create their own risk matrix, drag cell content, import and export HAZOP templates from leading PHA tools, spell check, and more to customize the PHA / PRM Module for your needs. This module utilizes our Bow Tie / Swiss Cheese Analysis and our Damage Mechanisms Functions as well, giving you process risk insights from multiple perspectives within one module.

Information from HAZOP studies are available for the LOPA study automatically, based on risk-level filtering. Clients can leverage the LOPA functionality to take credit for independent protective functions that sync with the visualization module to ensure you have the proper level of engineering and administrative safeguards while assessing changes to threats in real-time. The PHA / PRM Module is part of the OS Safety Lifecycle Management portfolio that includes integration with engineered safeguards, like the Safety Instrumented Systems / IPL Lifecycle and Alarm Management Modules.
In addition, OESuite offers an Intelligent PHA™ managed service, cutting study time down 20-30% and greatly enhancing the study’s quality. Intelligent PHA supports the facilitator by providing a knowledge database, which serves as a sound foundation that contains industry equipment templates, information based on consensus codes, standards, and other industry best practices.

It is equipment-based, so any specific piece of equipment will provide PHA Cause-Consequence pairs for review by the PHA Team. If a facilitator knows the right questions to ask, they will have a pre-populated list of standard scenarios during preparation. Users can also quickly re-validate previous hazard reviews without recopying any records.

This process helps prevent missing standard hazard scenarios, because the process of selecting equipment is more efficient. Teams can validate or adjust scenarios as necessary, rather than spending big chunks of time identifying causes. Ultimately, the team has more time to focus on identifying major, potentially subtle hazards. While the Intelligent PHA process and tools do not absolve the team of their hazard identification responsibility, it does ensure the team can better accomplish their tasks.

Need to work in remote areas? OESuite also offers an offline PHA capability with synchronization back to the system. Our offline solution is built with ease of use in mind.

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**Figure 1 – Return on Intelligent PHA**

- **20-30% Reduction in Setup Time in PHA Prep**
- **20-30% Increased Team Efficiency**
- **Enhanced Accessibility of Relevant Equipment**
- **20-30% Reduced PHA Team Session Time**
- **Improved Study Consistency and Quality**
Once the risk assessment is complete, recommendations can be managed in our MOC, CAPA / Action Item Management, Task / Compliance Management, and Work Management / CMMS / EAM Modules. OESuite’s interoperability helps ensure nothing falls through the cracks once your study is done.

**OESuite™ Integrations**

The PHA / Process Risk Management Module integrates with other OESuite™ Modules. It utilizes our Asset Registry, Bow Tie / Swiss Cheese Analysis, Damage Mechanism, and Redlining Functions.

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