

FAC MANAGER EROSION BUNDLE



Efficient and Effective Erosion Program Management

FAC Manager's Erosion Bundle provides the tools necessary to implement an effective program against erosive attack to piping and equipment. FAC Manager supports the essential processes for detecting and mitigating erosive attack as well as the maintaining the necessary documentation.

Key functionality includes:

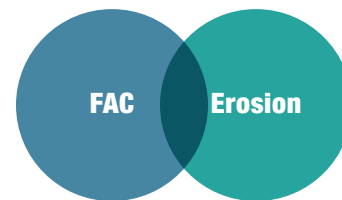
- Susceptibility by each of the four (4) erosion mechanisms detailed in LR-ISG-2012-01
- Risk ranking based on susceptibility and consequence of failure
- Integration of CHECWORKS™ SFA 4.1 erosion predictions
- Inspection selection and analysis

Together Yet Separate

The Erosion Bundle utilizes the familiar FAC Manager interface, forms, and processes thus allowing for instant usability for current FAC Manager users and a very short learning curve for new users.

Many of the functions and data used in FAC programs and Erosion programs are similar or overlap. FAC Manager enables the program owner to choose to focus on either program separately or to work on the programs together.

FAC Manager



The screenshot displays the FAC Manager software interface. At the top, there are tabs for 'Edit Line', 'Cancel', 'Save', and 'Calculate'. Below this, there are dropdown menus for 'System' and 'Subsystem', both set to 'Heater Drains & Vents'. A text box for 'Number' contains '1000073'. A dropdown for 'Diameter' is set to '2.0 3/8"'. A text box for 'Description' contains 'Low pressure heater off HPS No. 1 to heater HPS No. 1'. A dropdown for 'Flow Diagram' is set to 'G1'. A text box for 'SFA Line Name' is empty. A dropdown for 'Reference' is set to 'FAC 9 / Erosion P&ID'. A 'Comments' section contains text about the line being ruled out due to unknown flow conditions. Below this, there are two tabs: 'FAC Susceptibility' and 'Erosion Susceptibility'. The 'Erosion Susceptibility' tab is active, showing a grid of input fields for 'Cavitation', 'Fibrous Flow', 'Liquid Droplet Impingement', and 'Solid Particle Erosion'. The 'Risk Ranking Inputs' section includes dropdowns for 'Consequence of Failure', 'Erosion Relative Susceptibility', 'Plant Experience', and 'Industry Experience'. The 'Risk Ranking Results' section shows 'Consequence of Failure Ranking 2.0', 'Susceptibility Ranking 2.0', and 'Overall Risk Ranking 4.0'. At the bottom, there are sections for 'Plant Line Properties' and 'Piping Material Class'.

Delivering Customer Success
Through Innovative Solutions



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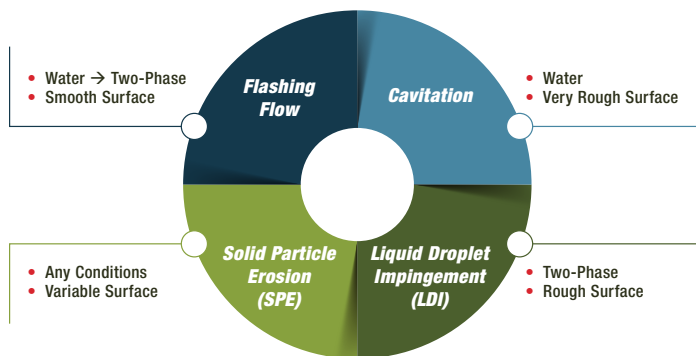
THE FAC MANAGER EROSION BUNDLE PROVIDES A FLEXIBLE AND STREAMLINED PLATFORM FOR MANAGING THE MITIGATION OF EROSION ATTACK.

Identify Susceptible Locations

FAC Manager enables the program engineer to perform erosion susceptibility evaluations for:

- Liquid droplet impingement (LDI)
- Cavitation
- Flashing Flow
- Solid particle erosion (SPE)

Susceptibility to each of the mechanisms, as well as FAC, is tracked independently.



Leverage Analysis and Inspections

FAC Manager's Erosion Bundle enables program engineers to maximize the value of inspections and analysis performed for one damage mechanism by extrapolating the information across multiple mechanisms. In addition, safety factors used in inspection analysis may be adjusted to account for a location's susceptibility to multiple mechanisms.

About United

United Engineers & Constructors is an industry leading infrastructure engineering, procurement, construction and consulting company dedicated to improving lives by delivering the most impactful solutions. Since 1905, we have served the power industry by providing comprehensive lifecycle services for the nuclear, conventional generation, renewable, and distributed energy markets.

Together with our clients and partners, we are unified in our efforts to deliver innovative and transformative infrastructure that is designed and built to meet the demands of today and the future.

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You Control Your Erosion Program

Utilities have taken a wide range of paths toward managing their Erosion Programs. FAC Manager's Erosion Bundle was specifically designed to provide the flexibility necessary to accommodate these multiple approaches. Each utility can control the number of systems and lines monitored within the Erosion Program.

The Risk Ranking algorithm may be customized to focus on utility-specific needs. Criteria and weighting factors can be added or modified based on the priorities and concerns of the utility.

