

Static Alarm Documentation & Rationalization

Systematic process of reviewing and documenting the configuration and purpose of every alarm in alignment with an approved Alarm Philosophy.



The Puffer Static Alarm Documentation & Rationalization (Steady State) Solution

Alarm Documentation and Rationalization (D&R) is a systematic, sustained, and structured multi-discipline review of alarms within a process operating area relative to the operational objective of the alarm, the expected response to the alarm, and the conformance of the alarm to design standards. Puffer senior consultants with decades of experience in the industry, lead the in-person team sessions or perform a pre-rationalization exercise before meeting with the site team to allow for scheduling and resource flexibility. During the D&R process, alarm setpoints and priorities are determined using a consistent, engineered approach for the steady state operating state of the equipment, in alignment with the Alarm Philosophy. Alarm Documentation and Rationalization (D&R), also commonly called Alarm Objective Analysis, results in the creation of a Master Alarm Database, which contains the post-rationalized alarm configuration with changed setpoints, priorities, and other alarm settings according to the site Alarm Philosophy:

- Alarm Purpose.
- Consequence of Inaction.
- Cause of alarm annunciation.
- Corrective Action (Basic Operator response guidelines)
- Operator Urgency (Response Time).
- Severity of Consequences in User-defined Impact Areas (Safety, Environmental, Financial).
- Alarm Activation Point (Limit).
- Alarm Priority
- ..And more.

KEY COMPONENTS

- **Configure the correct alarms on an existing system.**
- **Correct a mis-configured system for performance improvement.**
- **Ensure consistency in alarm settings.**
- **Ensure proper and meaningful Priority and Trip Point settings.**
- **Provide detailed alarm information for use by the operators.**
- **Create the Master Alarm Database, used as a reference for Dynamic alarm management, flood suppression, and Audit/Enforce mechanisms.**

Alarm Management Packages

CORE

- Alarm Management Philosophy
- Baseline Benchmarking
- Bad Actor Alarm Resolution

ESSENTIAL

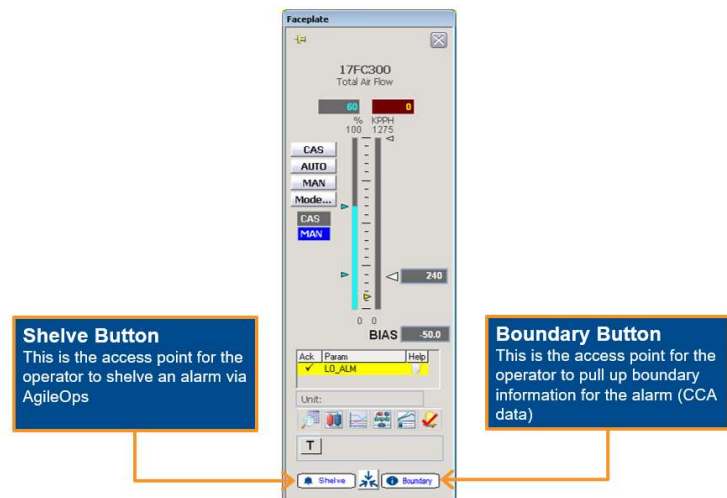
All Core features, plus:

- DeltaV AgileOps™ Software
- Steady State Documentation and Rationalization
- Audit and Enforce / Synchronization

BEST PRACTICE

All Advanced features, plus:

- Dynamic Alarming Rationalization, Design & Implementation
- Alarm Shelving



Call Puffer-Sweiven at 281-240-2000 for more information today!

PUFFER-SWEIVEN CORPORATE OFFICE AND DISTRIBUTION CENTER

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Systematically ASSESS, DESIGN, IMPLEMENT, MONITOR, AND OPTIMIZE Process Control Alarm Systems to Enhance Operator Effectiveness in Identifying and Responding to Critical Abnormal Situations, Ensuring Improved Safety and Operational Efficiency.



Alarm Management Solutions

The Puffer program is a structured approach designed to optimize alarm systems in process control environments by reducing alarm overload, eliminating nuisance alarms, and ensuring that only critical alarms are presented to operators. Our program involves comprehensive static and dynamic alarm rationalization, prioritization, and continuous monitoring to enhance operator response and decision-making. By improving the effectiveness of alarm systems, the program aims to increase safety, compliance, and operational efficiency.

Alarm Management Packages	CORE	ESSENTIAL	BEST PRACTICE
Alarm Management Philosophy	■	■	■
Baseline Benchmarking	■	■	■
Bad Actor Alarm Resolution	■	■	■
Documentation and Rationalization – Steady State		■	■
Audit and Enforce Synchronization		■	■
DeltaV AgileOps™ Software Implementation		■	■
Dynamic Alarming Rationalization, Design & Implementation			■
Alarm Shelving			■



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