

Bad Actor Alarm Resolution

Targeted resolution of “low hanging fruit” meaningless annunciations to provide immediate relief from nuisance alarms.



The Puffer Bad Actor Resolution Solution

Bad Actor Alarms (or Nuisance Alarms) are alarms in an industrial alarm system that frequently trigger without providing useful or actionable information to the operator. These alarms can be problematic because they do not represent actual issues in the process or equipment but rather result from incorrect configurations, faulty sensors, poor alarm design, or system malfunctions. Examples of Bad Actor Alarms include:

- **Frequently Annunciating Alarms:** Oftentimes, the Top-10 alarms can make up 20% - 80% of the total alarm system load.
- **Chattering Alarms:** Alarms that cycle between actuating and clearing three or more times per minute. A subcategory are Fleeting Alarms. These are alarms that come in and clear very quickly (too quickly for the operator to have been responsible), but do not necessarily repeat. Common causes are identified as:

Threshold Alarms (frequently go off because the threshold is set too close to normal operating levels) and Signal Noise (triggered by temporary or spurious fluctuations in a sensor signal, not by real process deviations).

- **Duplicate Alarms:** Alarms that persistently occur within a short time period of other alarms, typically within one second of each other. Such alarms are highly likely to be multiple annunciations, in different ways, of the same process event – an undesirable situation.

Puffer Bad Actor Alarm Resolution solution provides a comprehensive what-if analysis of the top Nuisance Alarms and offers customized, alarm specific recommendations for simple configuration adjustments to target immediate relief from frequently occurring 'bad actor' alarms.

KEY COMPONENTS

- **Proper Deadband**
- **Proper ON & OFF Delay Timers**
- **Process Value Filtering**
- **Mechanical and Installation adjustments**

Alarm Management Packages

CORE

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

ESSENTIAL

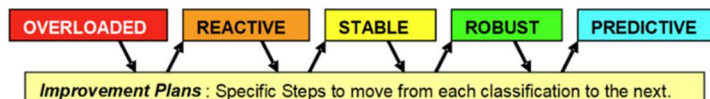
All Core features, plus:

- 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!

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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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