

Alarm management lifecycle for the process industries

Improving safety, profitability
and human factors

Alarm management lifecycle for the process industries

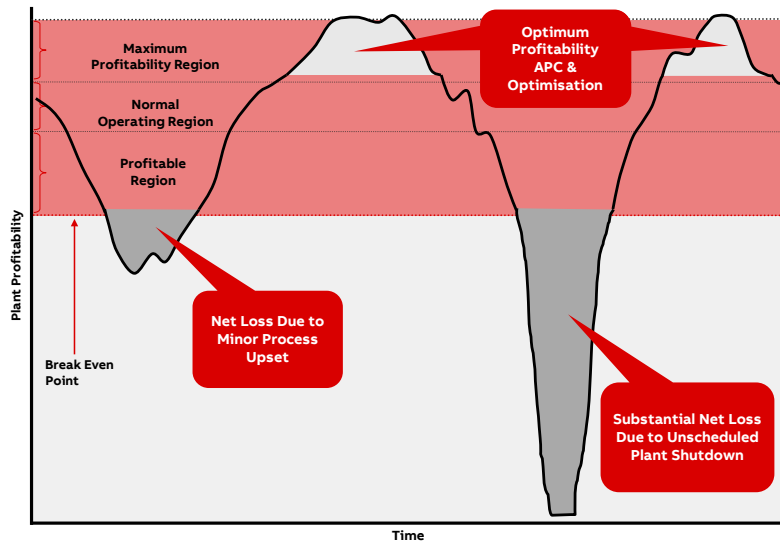
We all know that safety and profitability are cornerstones of a sustainable operation. Increasingly we appreciate how crucial is the contribution of the alarm system. Are you being challenged to improve your alarm system performance?

Example monthly KPI dashboard.

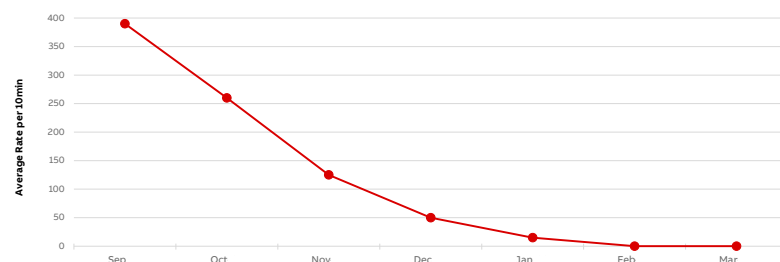
Asset integrity indicators	Asset 1	Asset 2	Asset 3
Section A: Management process	Green	Green	Green
Section B: Protective systems	Yellow	Green	Green
Section C: Operations management	Red	Yellow	Yellow
Section D: Maintenance	Yellow	Yellow	Green
Section E: Plant integrity	Yellow	Green	Green

Operations management Q2 2014	Asset 1	Asset 2	Asset 3
KPI c1: Average alarm rate	Yellow	Green	Green
KPI c2: Peak alarm rate	Red	Yellow	Green
KPI c3: Control loops on manual	Green	Yellow	Yellow
KPI c4: Protective system overrides	Yellow	Green	Green

Plant profitability over time graph.



Average alarm rates for an offshore gas processing plant.



Why ABB?

With ABB as your alarm management partner, we are able to support you with a wide range of products and services that follow your alarm system from cradle to grave throughout the alarm management lifecycle.

ABB solutions

We can help you achieve:

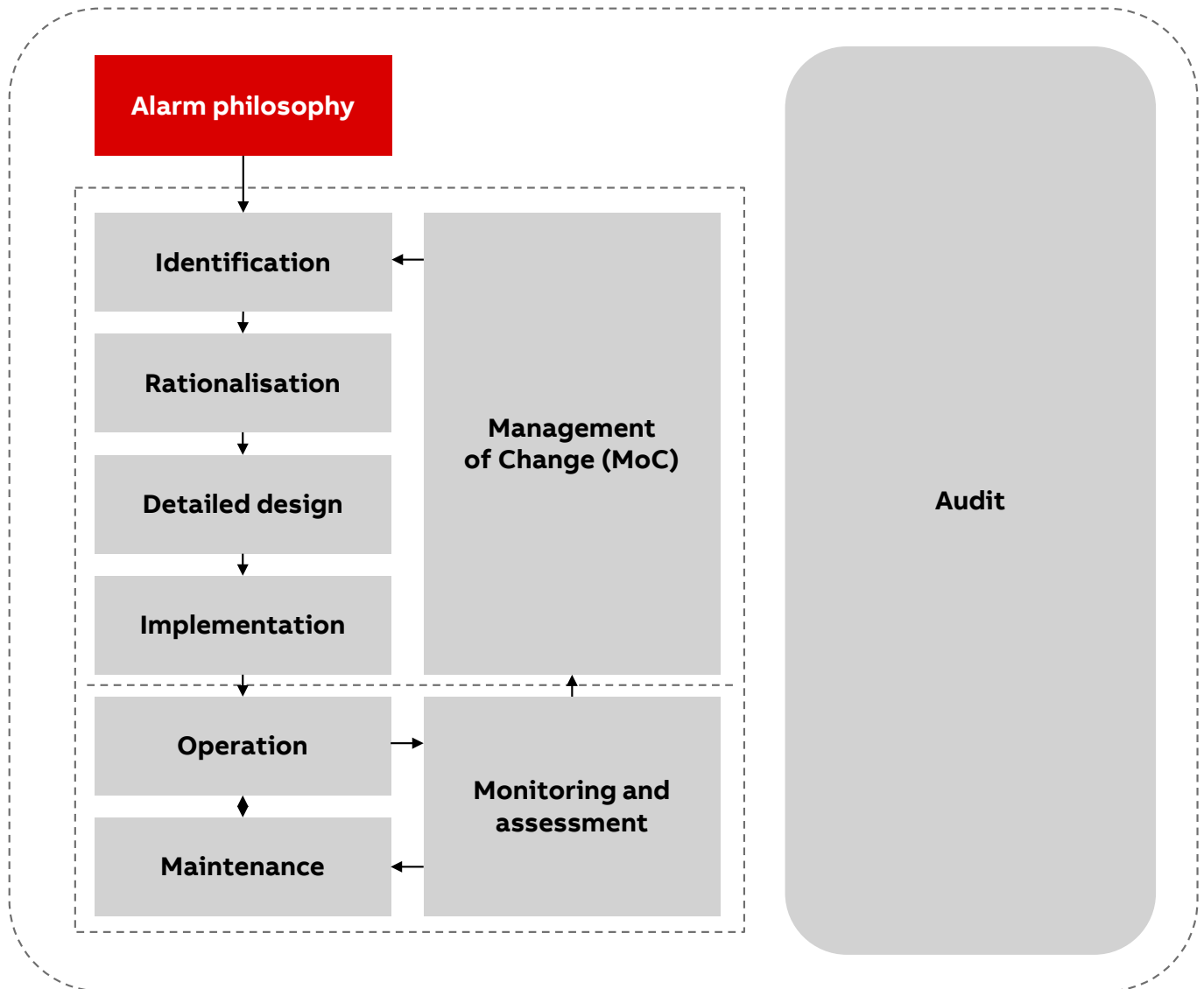
- Compliance with industry standards and good practice
- Improved safety and environmental performance
- More flexible and efficient plant operation
- Increased production and equipment availability
- Smoother start-up and shutdown
- Operational human factors improvements / reduced operator stress

“Sometimes I dream of process alarms and then they wake me up.”

Control Operator, Major UK Operator

“This is what success looks like. The number of unplanned shutdowns for our facility alone fell from 25 the year before our alarm improvements, to 6 afterwards. This has a significant business value.”

Operations GM, Major Global Operator



Alarm management, operational human factors and process hazard services:

- Alarm management consultancy services for new build, upgrade projects and existing systems
- Alarm management training
- Planning and management of alarm management improvement projects
- Alarm management workshops, coaching and mentoring
- Operational human factors training
- Operational human factors consultancy and improvement planning
- Assessment and improvement of control room ergonomics
- Control system upgrade and hot cut over planning
- Alarm management performance and monitoring tools
- Alarm reporting services

800xA alarm management enhanced tools and products (available as additional options):

- 800xA alarm operations
- Features include alarm shelving; alarm handling; alarm grouping; alarm helper and KPI visualization
- 800xA alarm history and reports
- Provides long term storage of alarms and automatic alarm KPI reporting and distribution
- AlarmInsight monitor
- Extended version of 800xA alarm history and reports
- Features include event consolidation from multiple DCS or plants, enhanced alarm analysis tools and web clients
- AlarmInsight manager
- Alarm documentation and MOC support for integration with master alarm database



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