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# SILStat

Operation & Maintenance Data Collection with SILStat™



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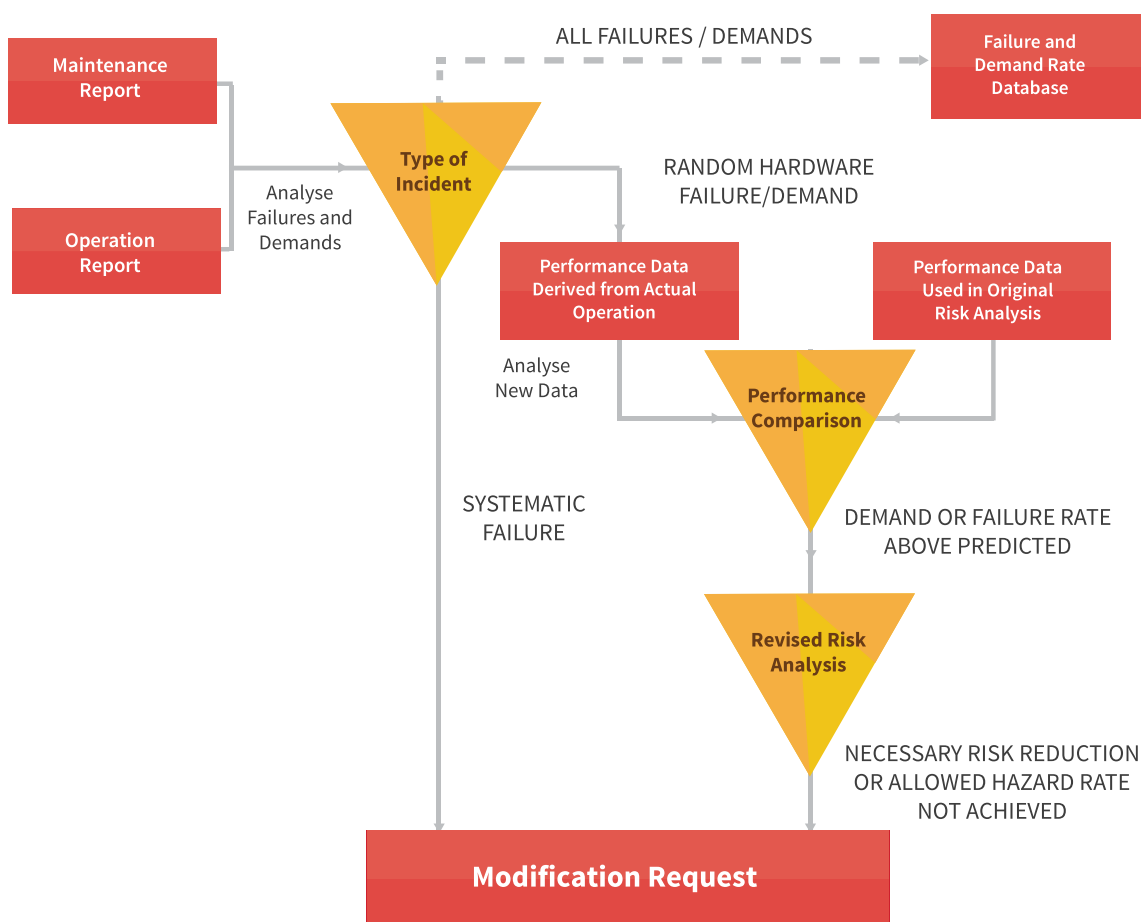
# What is SILStat™?

SILStat captures key operational and maintenance data (such as equipment failures, process demands, success or failure of protection layers, proof test results, execution of mandatory maintenance activities, etc.) for review and analysis as required by the IEC 61511 / ISA 84.00.01-2004 standard and as part of compliance with an OSHA Process Safety Management (PSM) Mechanical Integrity Program.

The IEC 61511 / ISA 84.00.01-2004 functional safety lifecycle consists of three main phases:

- » Analysis
- » Realization
- » Operation & Maintenance

When optimizing the risk reduction of **safety instrumented functions** and other layers of protection, it is necessary to collect actual performance data so that it can be compared to the expected performance (determined during the Analysis and Realization phases). Operation and Maintenance data (such as demands and failures) can be used to determine the actual risk posed by a hazard scenario and the effectiveness of the individual layers of protection. Comparing actual (achieved) risk reduction vs. expected risk reduction allows safety practitioners to evaluate the effectiveness of their risk reduction design and take appropriate action.



Requirements for Operational Safety Data Analysis and Review [IEC 61508]