

Using Operating Data to Drive Leading Indicators

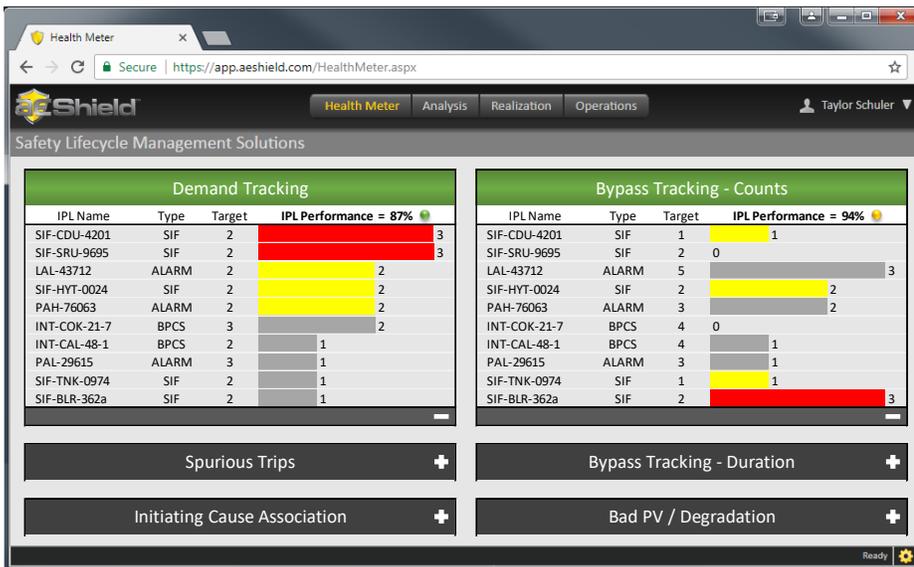
Can you leverage process data to reduce risk from your business?

Due to our process safety information being spread across our facility in different documents, tools, and even technical personnel, we have no mechanism to leverage process data to make better decisions.

-Instrumentation and Controls Authority

Real-time Events

We know aeShield® can be the single-source of truth for your process data. The inherited data model linking risk rankings down to tagged devices makes it easier to support daily operations. Did you know you can also interface with process historian-type data to gather event data for further analysis? Regardless of the safety instrumented system (SIS), basis process control system (BPCS), or historian manufacturer/provider, you can create the rules to add process safety context to event data. Once the events are brought into aeShield, your subject matter experts can validate and further annotate to add even more value to the information. Operational data is the key to converting a reactive culture to a proactive culture. Use aeShield to unlock the information required for leading indicators to identify and take action against bad actors.




Stop Building Notebooks

Start using real-time operating data to DRIVE DOWN RISK

Examples of data-driven activities and KPIs:

- Demand Tracking
- Spurious Trips
- Initiating Cause Association
- Bypass Tracking - Counts
- Bypass Tracking - Duration
- Bad PV / Degradation

Functional Safety Index™

As thought leaders, aeSolutions has developed a single metric to measure overall performance of all protection layers versus what is assumed during initial design at your facility. The fundamental concept behind the key performance indicator is leveraging logic used in a Layer of Protection Analysis (LOPA). In a LOPA study, the team evaluates potential hazardous scenarios by establishing the severity of the event and the likelihood of the event occurring given the effectiveness of various protection layers. To reduce the risk to a tolerable level, safeguards in the form of independent protection layers (IPLs)

are added. If you can monitor the performance of these IPLs in real-time operation, then aeShield can calculate the Functional Safety Index™ (FSI) by comparing actual versus assumed performance. For the first time, FSI as an individual number can be added to a monthly scorecard next to throughput to ensure you met your goals and you did so safely. You can then use FSI to drill down to the bad actors that increase your risk profile and even understand where to best invest your money to reduce risk on a daily basis.

What is your FSI?



Contact us today for a free demo or more information
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