

Downtime Reporting

POWER GENERATION

Data Sources

- Process Data Historian: Rockwell FactoryTalk

Calculations and Capsules

Seeq Value Search is used to identify short mill upsets. Custom Conditions are used to assign each downtime to the appropriate reason code.

The conditions are combined using the formula tool, and various properties are assigned to enable analysis and reporting. The count and duration of outages over time are summarized against reason codes using the histogram tool.

Challenge

Understanding the causes of unit downtimes and lost production is a growing concern for operators across process manufacturing organizations. Operators need to understand the root causes of downtime and resulting lost production to plan improvement projects to reduce the frequency of the most common causes.

Solution

Seeq's tools are used to identify unit downtimes and periods of lost production. Using Seeq's downtime reporting, operations teams can apply reason codes to each period of downtime. The reports consolidate reason codes to provide long-term analysis of the causes of lost production or drill into count or duration of any one reason code. Thereby helping prioritize improvement actions.

Benefits

The analysis allows for continuous monitoring and tracking of downtime, lost production and reason codes. This enables operators and engineers to initiate effective improvement actions. Using downtime reporting reduces work for engineers and operations teams by providing the ability to consolidate the analysis that typically completed using multiple tools.

Summarizing Results

Prior to using Seeq, engineers and operations teams used a combination of PLC and Excel tools for tracking downtimes and assigning reason codes. This is a manual update and is an intensive effort for the engineer to account for each downtime after reviewing logs.

Using Seeq's downtime reporting functions operators and engineers can now continuously monitor and track in one application. The Seeq application reduces manual reporting by allowing for quick report generation. Optimal tracking and analysis of the causes of lost production provide operators with effective improvement actions.