

SAM GUARD – Smart in Plant Analytics

Failure Prediction and Predictive Monitoring



Chemical Plant

Problems

Customer recounts of availability issues. Operation is not smooth and availability is lower than expected.

Goal

A 3% Increase of plant operational availability

How product helped

In a few days exercise, the plant was partially modelled, covering a few of the main production units. Alerts directed the operators to equipment failures at the thermal incinerator; indicators show bad sensors at oxygen flow meter, and process deviations direct to the blower. Handling these problems and measuring the availability three months after applying the software, we found that unplanned shutdowns were reduced from 14% to 10%. A substantial increase of 4% was measured in the overall plant operational availability.

Value

4% increase in plant availability

Next steps include modelling the entire plant to increase plant operational availability to the highest standard of the industry.