

## SAM GUARD – Predictive Analytics for the Process Industry

# Failure Prediction and Predictive Monitoring



## Refinery - Pump

### Problem

- Indicators showed tags of position of valve 90%.
- Reformer tube temperature dropped to 750° slowly from 785° (Low alarm set point was at 650° ).
- Reformer draft opening dropped to 42% from 98%.

### How product helped

- SAM GUARD began to show signs 100° prior to set point.
- Thanks to the early alerts, combining all indicators together along with other relations in the plant, measures were taken to avoid equipment failure and major emergency shutdown.

### Value

- SAM GUARD provided an accurate alert that prevented a major failure of the pump.
- By fixing a small problem ahead of time, a greater problem causing shutdown and lost production was eliminated.