SAM GUARD – Predictive Analytics for the Process Industry
Failure Prediction and Predictive Monitoring

Motor Fan

Challenges
- Plant has failures, unrepetitive, each time a different failure occurs in a different location.
- Increase visibility of plant. Failures occur in overlooked and ignored parts of plant.

How Product helped
- Software created a very precise warning for Raw mill fan #4, out of ten fans.
- After respective inspection, broken dampers were detected. Draft repair conducted immediately, reducing vibration. Complete repair is scheduled.

Value
- Overlooked broken dampers were replaced thanks to SAM GUARD's alerts. A significant damage to the raw mill fan was prevented.
- By fixing a small problem ahead of time, a greater problem causing shutdown and lost production was eliminated.
- $103K of damage prevented
  (1 day shutdown - 600k tons of cement per year / 350 days of production x $60 per ton)