

## Cement Plant – Motor Fan

### Challenges

- Plant has non-repeating failures that occur in a different location each time.
- Need to increase visibility within the plant. Failures occur in overlooked and ignored parts of plant.

### How SAM GUARD Helped

- SAM GUARD created a very precise warning for raw mill fan #4, which is just one out of ten fans.
- After inspection, broken dampers were detected. Draft repair was conducted immediately, reducing vibration. Complete repair was scheduled.

### Value

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

