

Event IV: Raw Mill Motor

Event

- Temperature Increase in the mill motor windings
- No alarms in the MCC or the plant control room

CemAI Event Feedback:

- Plant electrical dept was alerted of the change with a recommendation to inspect the motor and recommended a thermal scan of the motor while in operation to identify any hot spots on the housing

Maintenance Team Findings:

- After thorough inspection it was found that one of the stator RTDs was failing and was scheduled for replacement. No issues were identified with the motor windings.
- Found that signals from the motor RTDs were not transferred to the control room screens so the operator would have no knowledge of motor temperature issues. Connections were established with proper interlocks for motor protection

Value:

- **Up to \$300k** to replace/repair a damaged motor
- **Up to 7 days of mill downtime** (spare availability)
- Kiln would run at half capacity for the entire time

