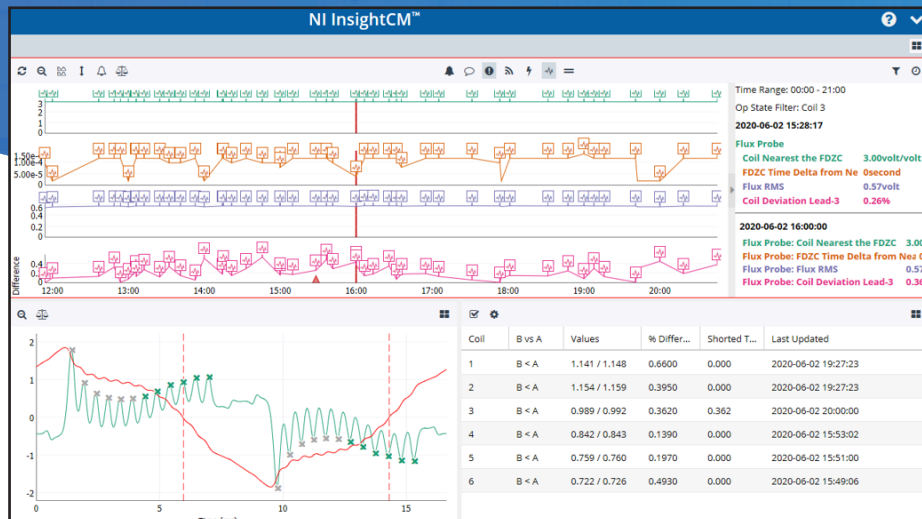


CUTSFORTH

ROTOR FLUX MONITORING



Rotor Flux monitoring (RFM) acquires signals from variances in the magnetic flux within a generator to indicate deterioration of winding insulation resulting in shorted turns. This damage can lead to:

- Increased demand on excitation systems
- Imbalances in the rotor field
- Increased vibration
- Degradation of flux field integrity
- Reduced generator capacity
- Increased risk of rotor ground fault
- Potential unexpected generator failure of forced outage

Cutsforth™ offers a unique Rotor Flux Monitoring system:

- **Plants own and control their own data**
 - » Plants control who sees their data, and ultimately what happens to their data
- **Creates a generator health trend**
 - » Data is archived to compare past and present values
 - » Featured trends provide early indication conditions leading to rotor ground faults
- **Reduces O&M cost**
 - » Data provides insight that plants can rely on to better plan outages based on condition rather than a calendar
 - » Fewer surprise forced outages
- **Requires NI InsightCM License**
- **Eliminates annual outsource expenses**
 - » Plants can now continuously monitor the magnetic flux in house, rather than paying a third party vendor to come take periodic readings
- **Real time information**
 - » Continuous monitoring allows plants to detect variances in real time, and to take appropriate action quickly
- **Real time status alarms**
 - » Plants are able to set their own multiple parameter alarms
- **No outages needed**
 - » Cutsforth™ RFM system allows plants to continue operation while being installed