PdP use and results at Edison Mission Energy

August 8, 2013

Edison Mission Energy has

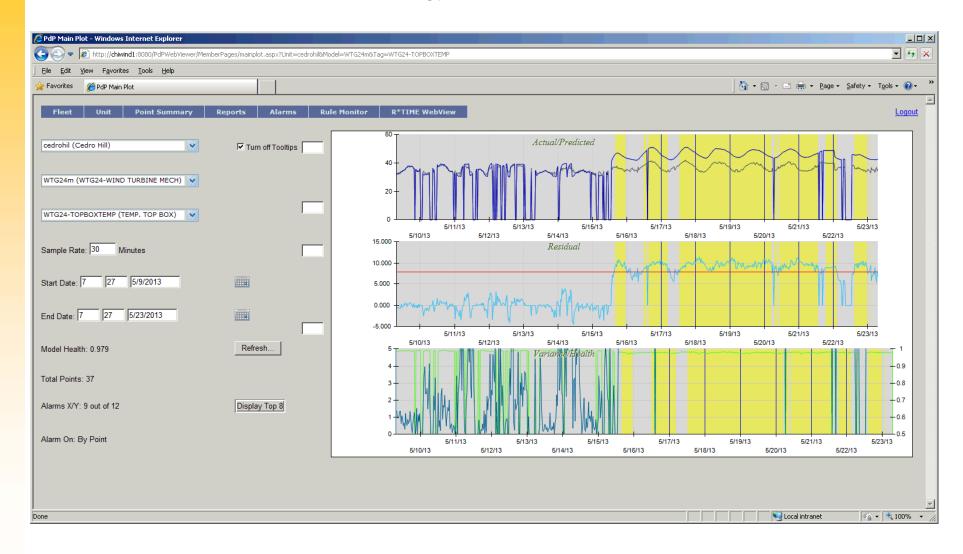
- 4,306 MW of coal fired units at four plants in Illinois.
- 2,024 MW of wind energy in eleven states.
- 2,044 MW of gas fired generation in California

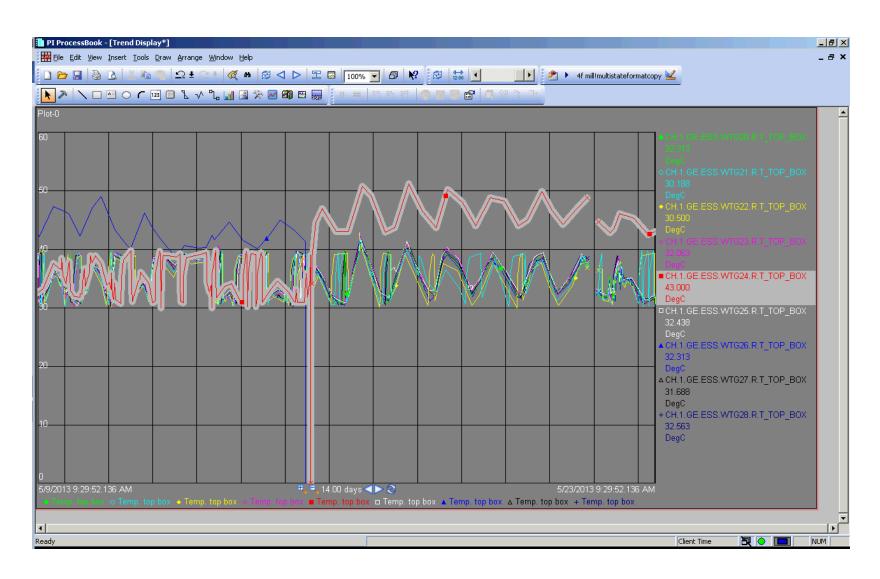


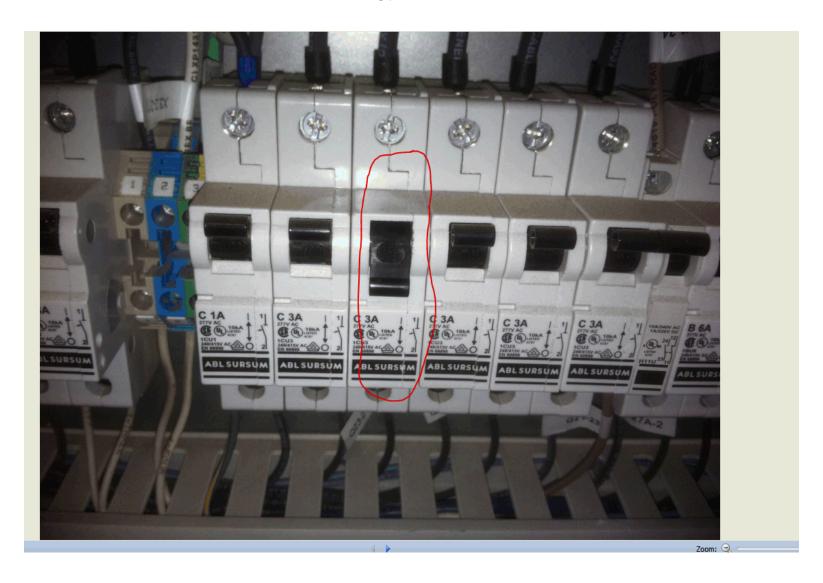


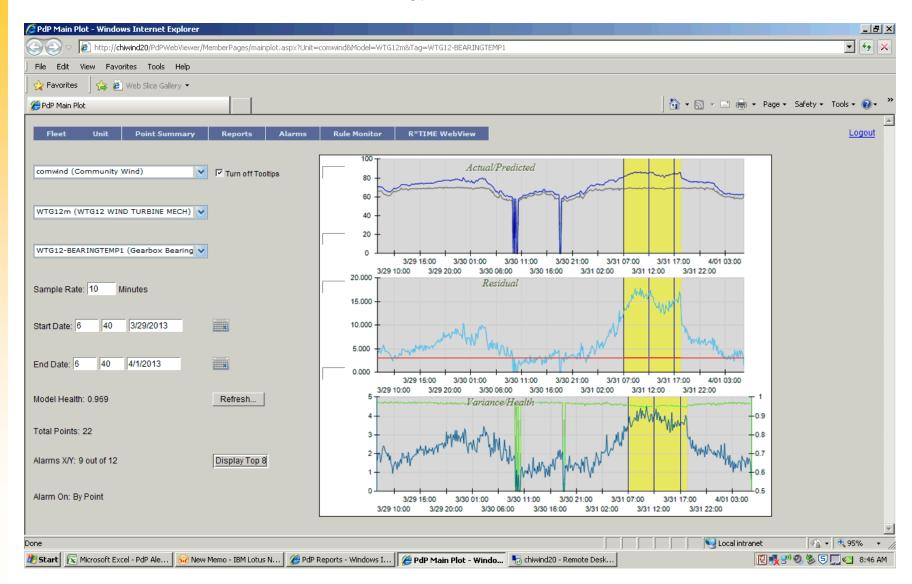


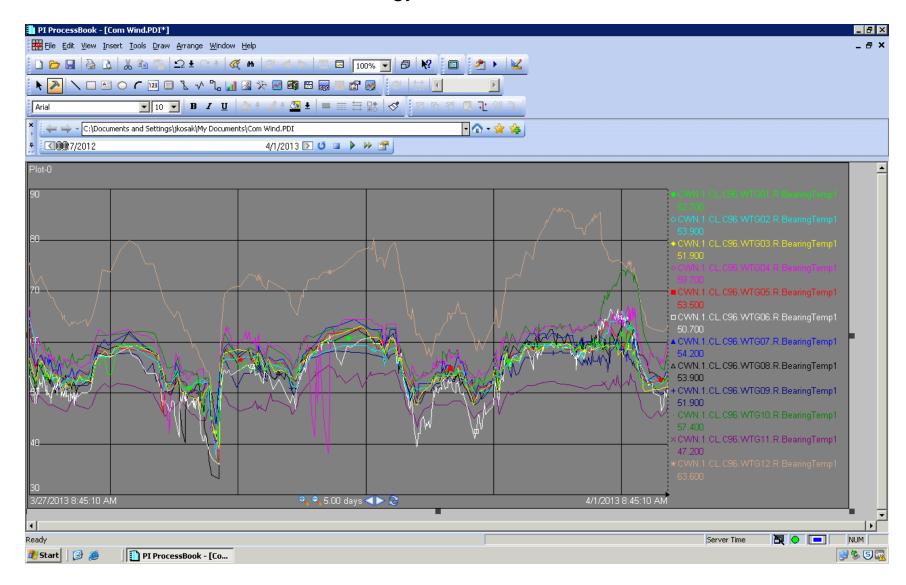
Use of PdP at Edison Mission Energy – some "finds"

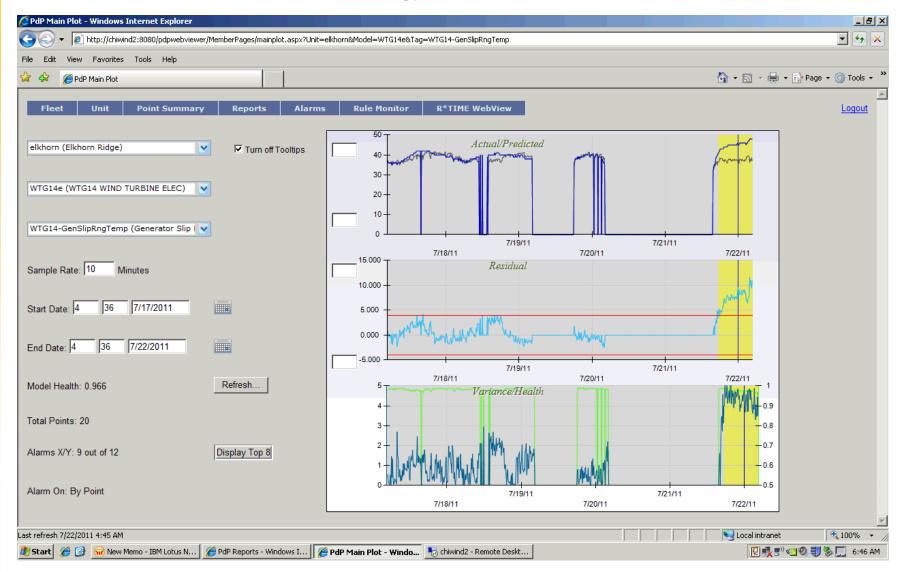


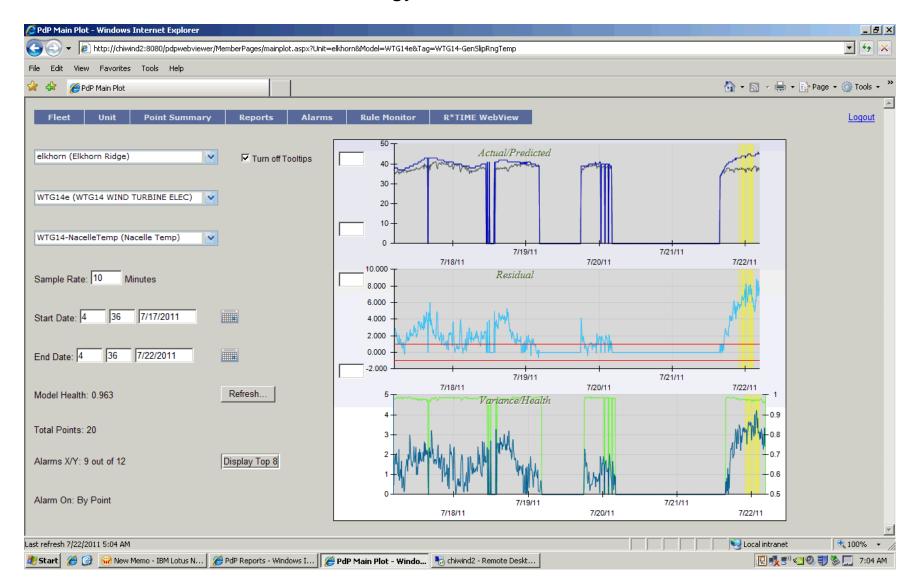


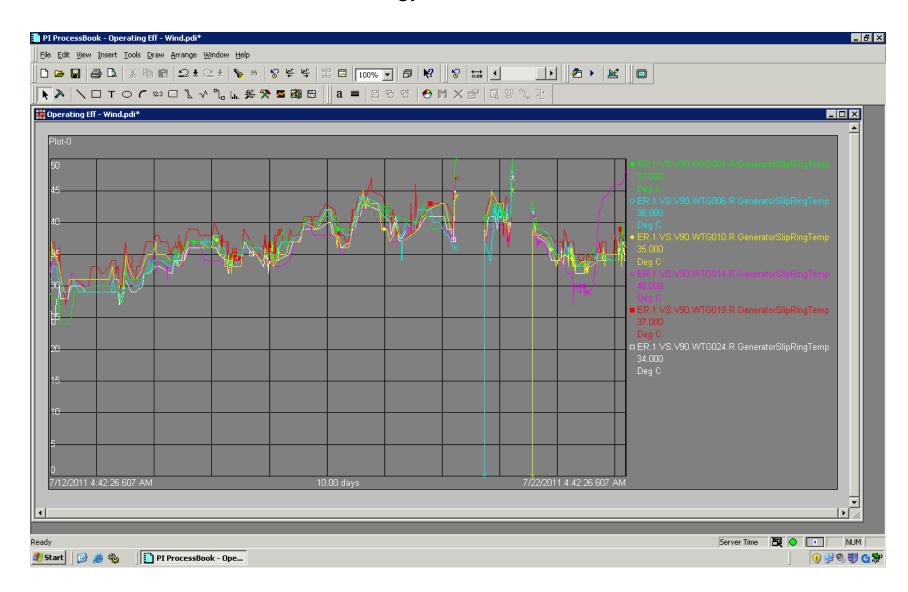


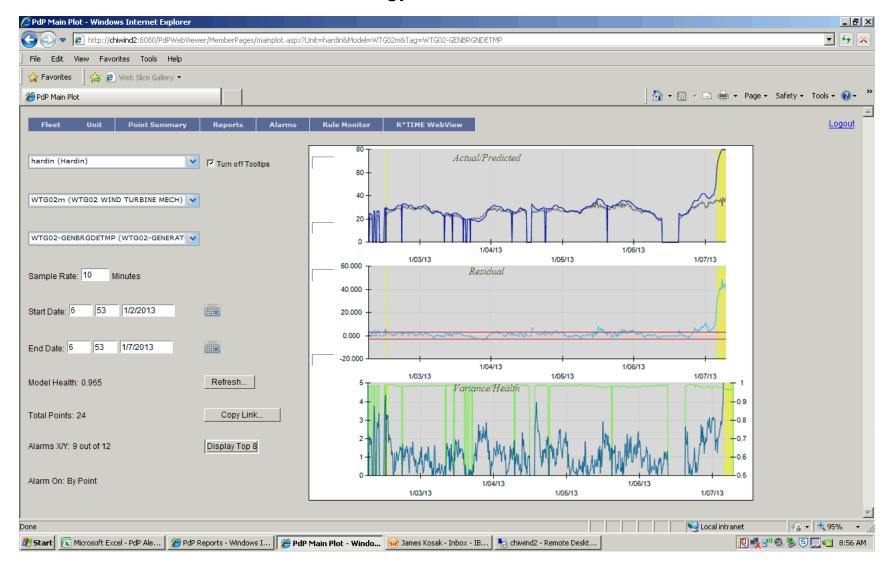


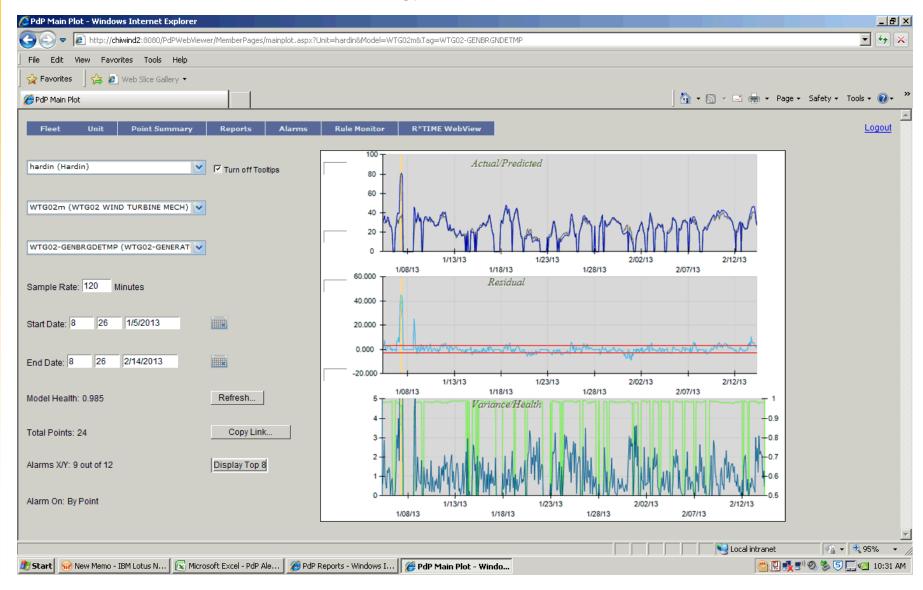


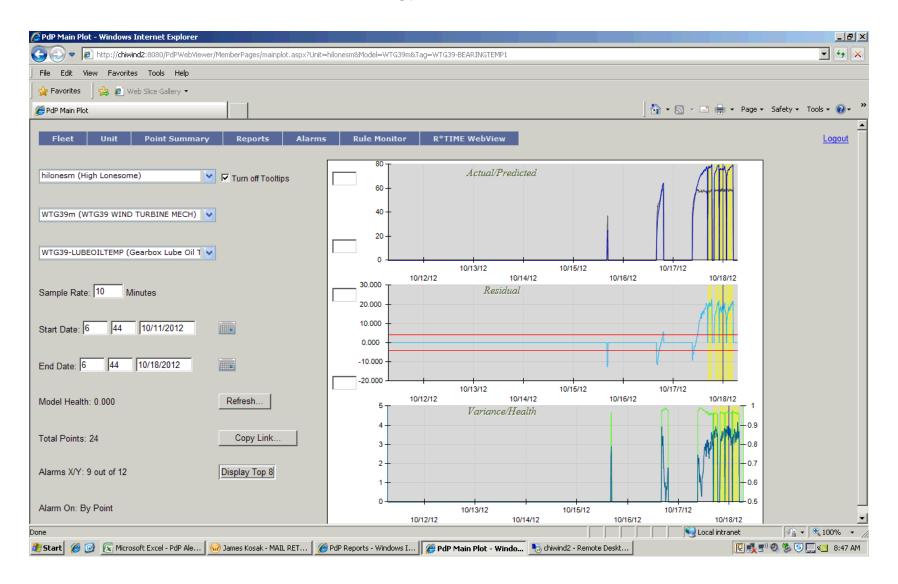


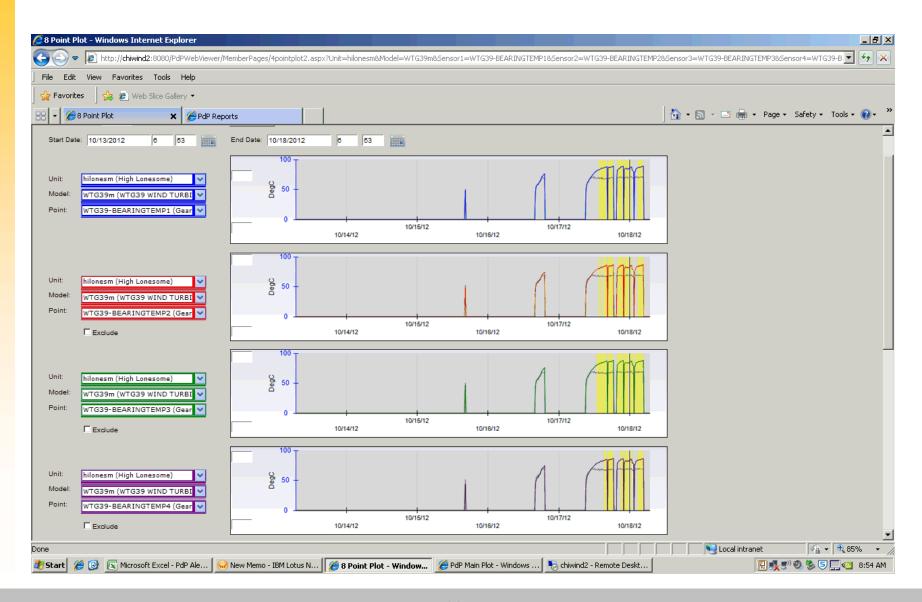


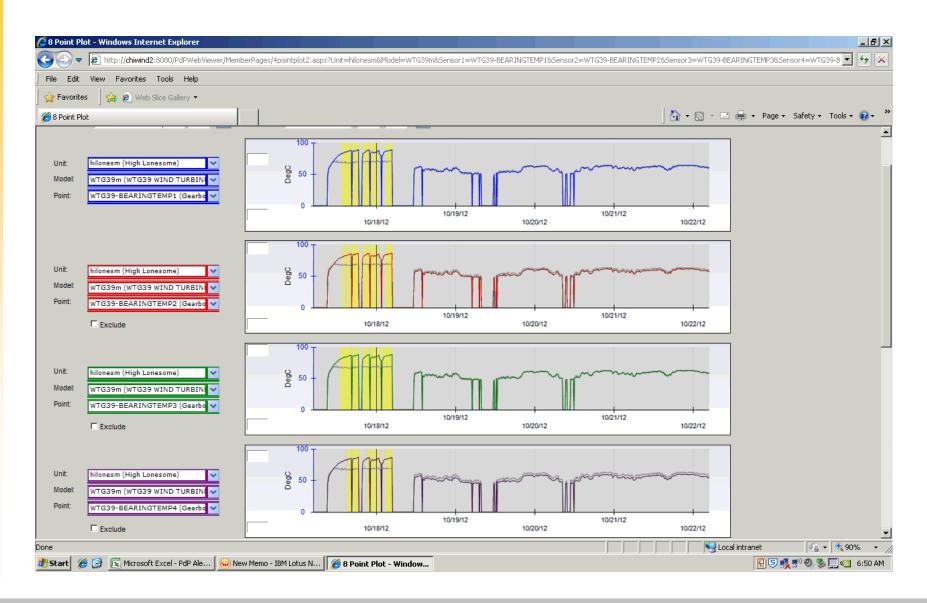


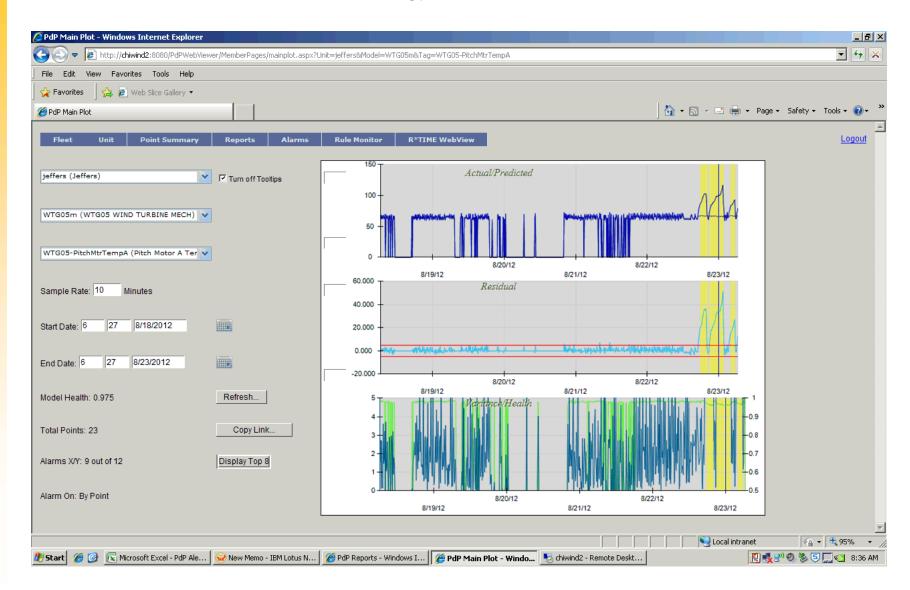


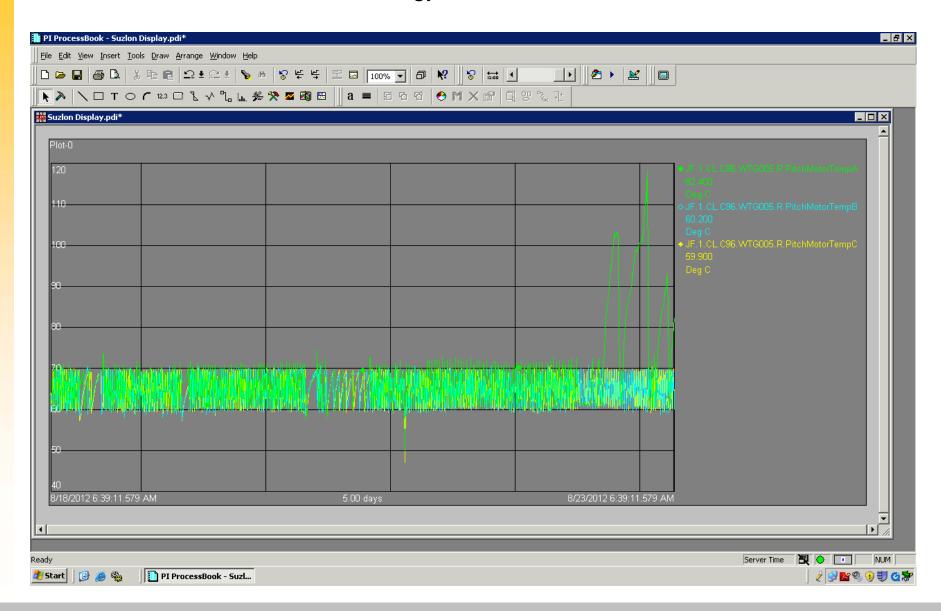












Other finds:

- Bad thermocouples
- Bad oil pumps
- Bad cooling fans
- Plugged radiator on oil cooler
- Switches left off (or on)
- Low glycol levels in coolers
- Blown Fuses
- Rag blocking cooling fan vent
- Bad bearings
- Improper thermostat settings
- Poor alignment
- Wrong lubricant

- Moving PdP prediction and alarm points into OSI/PI system
 - Allows site personnel to use a more familiar tool (PI).
 - Allows data to be recalled from months and years in the past.
 - Changes in predictions upon equipment changes
 - Look at changes on similar models over varying seasons.

PdP AutoReport and PI at Edison Mission Energy

- AutoReport can display a link to any external file (open a PI display or ProcessBook, *.pdf....). A separate link can be configured for each model.
- The report not includes the PI Server and PI Tag Names for sensors in the report
- The report is expanded to include data from the current value table at the time of the report ... Actual, Predicted, Residual, Variance
- Configured to run once a day, filtering results to show only those above 30% of time in alarm. Emails configured to send reports to responsible parties on a site by site basis

