

Sherco Generating Station



Picture 1: Using a laser tracker to verify concentricity of magnetic plates on stator unit.

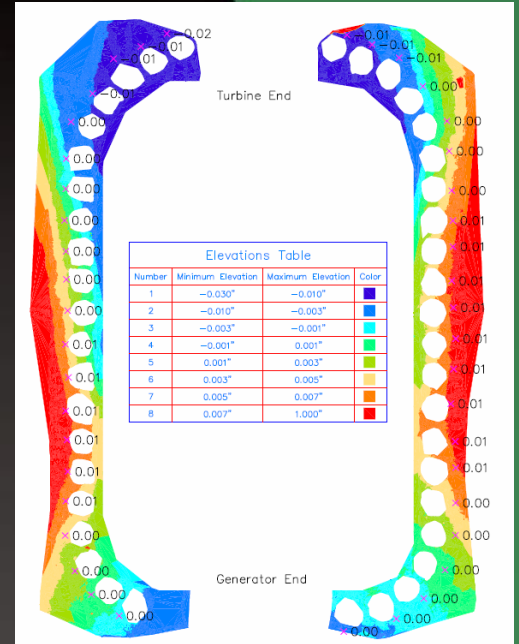
Laser Tracking Services

At a combined capacity of 2,4000 megawatts Sherburne County (Sherco) Generating Station is the largest power plant in the state of Minnesota. Sherco houses three generating units of 750, 750 and 900 megawatt capacities respectively.

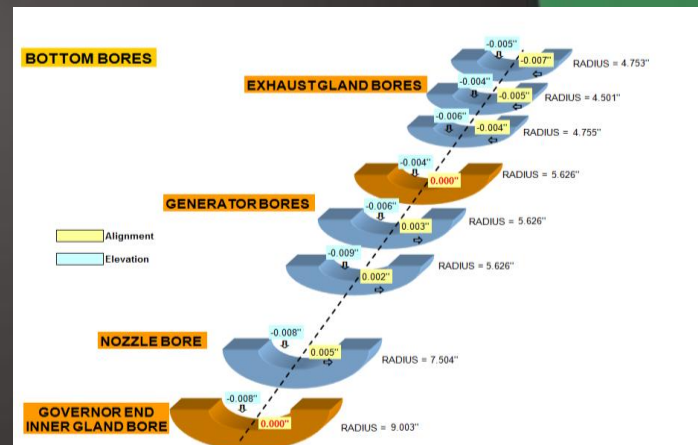
On November 19, 2011 unit 3 of Sherco experienced a catastrophic failure during a test cycle resulting in a reduced capacity of 1,500 megawatts. Repairs for the project resulted in an estimated cost of over \$200 million.

Utilizing laser tracker technology, Falk PLI performed 3-D and 4-D alignment services. Services included support for turbine alignment & machining, settlement monitoring, deformation mapping and turbine layout.

Laser trackers have proven to be faster, more reliable and more repeatable than traditional optical survey methods. Today's software packages virtually eliminate human measurement error through 100% electronic data collection. Onboard statistical analysis capabilities allow for near instant recognition of quality measurements. Utilizing laser tracker technology combined with experienced technicians, Falk PLI is able to provide clients with real-time adjustment support without waiting for an office report.



Picture 2: Color map depicting generator split line relative to level.



Picture 3: Generator bore alignment, accurate to within +/- 0.001".



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