Express (Theoretical Tops On) Internal Laser Alignment

PROJECT SCOPE

KCP&L had a major outage on a Westinghouse 125MW steam turbine. They needed to have a quick turnaround time for the outage and could not take a traditional approach for the internal alignment. It had to be quick, efficient and precise. They decided that a great way to do this would be to perform an express internal laser alignment for the bearings, blade rings and other internal components of the steam turbine.

HOW WAS ACQUIP INVOLVED?

ACQUIP was contacted during a major holiday to mobilize to the job site. ACQUIP was able to start taking data immediately. We used our express alignment process and proprietary bracketing to record high quality data. Data is taken while the internal components of the turbine are being inserted and removed from the unit.

RESULTS OF THE PROJECT

Reliable and repeatable data was collected and all internal components were perfectly aligned. Several months after the outage the plant maintenance manager congratulated ACQUIP, INC on a great alignment and that the efficiency of the turbine had increased several percent.