

GE Frame 7E Gas Turbine Internal Laser Alignment

PROJECT SCOPE

GenOn had a major outage on a GE Frame 7E Gas Turbine. They needed a way to expedite outage and return the unit to service with maximum efficiency. They decided that a great way to do this would be to perform a laser alignment for the bearings and compressor sections of the Gas Turbine.

HOW WAS ACQUIP INVOLVED?

ACQUIP was able to mobilize to the job site when the alignment was ready to be performed. The turbine was checked for its pre-alignment condition and Acquip was able to start taking data immediately. ACQUIP was able to determine that there was no need to move any of the compressor sections. Only a small move was needed on the intermediate bearing in order to return the turbine to its optimal running condition.

RESULTS OF THE PROJECT

ACQUIP was able to shorten the outage by quickly acquiring all alignment readings. This was primarily due to ACQUIP proprietary brackets that can be set up while the compressor blades are still installed. The Gas turbine efficiency was improved and the unit came on line without issue. ACQUIP was able to quickly mobilize to the job site when needed, as to not waste resources during assembly.

