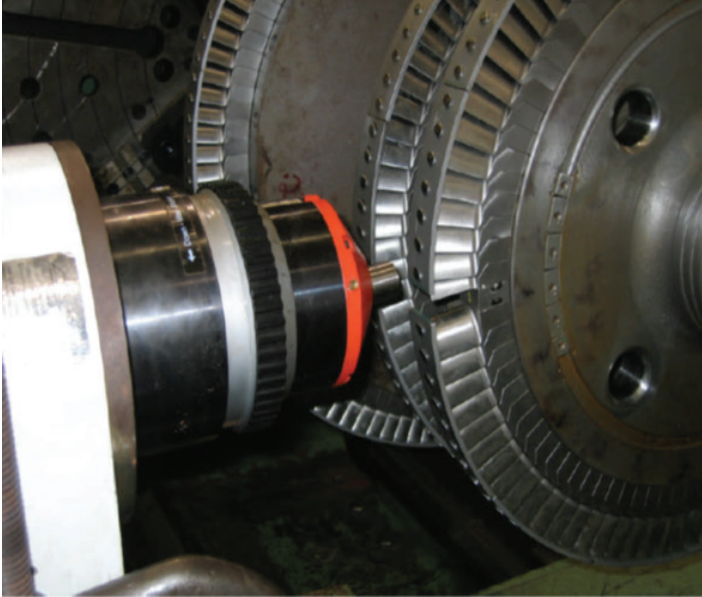


MAJOR UPRATE OF A GENERAL ELECTRIC STEAM TURBINE



RMS has performed a major uprating of a General Electric steam turbine for a mid-West petroleum refiner. The turbine horsepower capability has been increased from 5170 to 7000 as well as an increase speed capability.

The uprate was accomplished through a complete redesign of the flow path to allow the necessary higher steam flow to pass through the turbine. Valves, nozzles, diaphragms and rotor blades are replaced while retaining the original steam chest, casing and integral rotor.

The rotor shaft end has been redesigned to convert it from keyed to hydraulic and has been welded and remachined through a qualified procedure.

Analytical services include flow path aerodynamic redesign, structural and frequency analysis of the new nozzles and blades and rotor dynamic lateral critical analysis. The new components are being installed during a Fall outage.

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