

STEAM TURBINE STEAM PATH REPLACEMENT & INSPECTION

TUCSON ELECTRIC POWER
SPRINGVILLE GENERATING STATION
SPRINGVILLE, ARIZONA



DESCRIPTION:

Tucson Electric Power owns and operates the Springerville Generating Station located near Springerville, Arizona. The 1,243 MW coal fired plant contains two BBC/Alstom steam turbines, rated at 420 MW each, and one Mitsubishi steam turbine. NAES performed steam path replacement and major inspection on all turbine sections of Unit 2 during the 2007 spring outage. The replacement was performed to increase the MW output and efficiency of the unit. Alstom provided onsite TFA support and new equipment. As a result, a productive relationship was developed between NAES and Alstom site personnel.

SERVICES PROVIDED:

NAES provided project management, supervision, labor, tools, and specialty contractors necessary to perform the following:

- Retrofit HP and IP turbine sections with Alstom upgrade rotor and stationary parts
- Major inspection of both LP sections (LP1 and LP2)
- Removal, NDE and installation of four rows L-0 and L-1 blades
- Major inspection of intercept and control valves
- Inspection of all valve servos
- Blasting and NDE services
- Miscellaneous inspections of the generator, bearings, etc.

The project was completed ahead of the already aggressive 30 day schedule and without safety, environmental or quality issues.

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