

# 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 an HP and IP steam path replacement and major inspection on all turbine sections of Unit 1 during the 2009 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:

- Replace HP and IP turbine section blade paths with Alstom high efficiency components
- Major inspection of both LP sections (LP1 and LP2)
- Removal, NDE and installation of four rows L-0 blades
- Major inspection of stop, intercept and control valves
- Inspection of all valve servos
- Blasting and NDE services
- Miscellaneous inspections of the generator, bearings, etc.

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