

# SRP in Springerville, Arizona uses SUEZ mobile water to speed continuous steam blows

## challenge

To meet an increasing customer energy demand, the SRP (Salt River Project) utility started construction on a 400 MW coal-fired generating unit in February, 2007. This Unit 4 project expands the capacity of the 24-year old Springerville site to 1560 MW

To commission the unit on schedule by December 2009, the power plant needed to perform continuous steam blows to clean the steam turbine lines prior to sending steam to the turbines. This process requires fluctuating water quantities from 300 to 2500 gpm (68 m<sup>3</sup>/h to 568 m<sup>3</sup>/h) to clean out the steam turbine lines and ready them for power production.

SRP needed a reliable but temporary, high quality, and fluctuating quantity of water to perform the needed steam blows prior to the power plant commissioning.

## solution

SRP turned to SUEZ to meet their water needs. The available water was pumped from a well into a holding pond. Because of the ambient temperature, the pond grows algae and is prone to suspended solids in the water.

To provide the quantity and quality of water needed, SUEZ implemented the following solution:

- Six multimedia filtration trailers which remove the algae and suspended solids in the water
- Five reverse osmosis (RO) trailers which are able to produce 500 gpm (114 m<sup>3</sup>/h) per trailer
- Nine deionization trailers to provide final polishing prior to the steam turbine lines.



**SUEZ mobile water trailers onsite.**

## results

SRP was able to perform their continuous steam blows and clear the lines in much less time than without the SUEZ mobile water solution.

Having the consistent, high quality water helps to shorten the steam blow from weeks to just days.

The high GPM capacity of the system allowed this difficult steam blow to be achieved without putting current power production operations at risk during their peak power production period.

SUEZ's Mobile Water projects provide customers with the quantity and quality of water needed with emergency, short- and long-term contracts. If you would like more information about how a mobile water solution can provide you with the same, please contact your SUEZ account representative or visit [www.suezwatertechnologies.com](http://www.suezwatertechnologies.com).

Find a contact near you by visiting [www.suezwatertechnologies.com](http://www.suezwatertechnologies.com) and clicking on "Contact Us."

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