



## SANTAN FACTS

- ◆ SRP's expansion of the Santan Generating Station brings 825 megawatts of new electricity to the Southeast Valley, where energy demand continues to increase in conjunction with the rapid residential and business growth. The power facility is located near the southeast corner of Val Vista and Warner roads.
- ◆ By locating new generation sources close to the areas of demand, SRP can continue to provide the low-cost, reliable electricity its customers expect and deserve. Local generation was critical to keeping the lights on during this past summer's power transmission challenge.
- ◆ The new units feature state-of-the-art combined cycle technology and use only natural gas. Once in commercial operation, the units will be available to operate 24 hours a day, seven days a week.
- ◆ \$20 million in community and site improvements have been made, including extensive landscaping to ensure compatibility with the community.

**Editor's note:** This is the thirteenth issue of Energy News. Visit [www.santanfacts.org](http://www.santanfacts.org) or call us at (602) 236-2679 for previous Energy News issues or for more information about the project.

© 2004 SRP All rights reserved.

04-2364-01 10/04

 PRINTED ON RECYCLED PAPER.

## NEW UNITS BEGIN START UP PROCESS

### SANTAN EXPANSION NEARS COMMERCIAL OPERATION

SRP will reach a significant milestone in late October in its expansion of the Santan Generating Station with the beginning of major start-up activities in two of the new generating units.

A number of key activities will be happening in the months of "start-up" prior to commercial operation in summer 2005. Start-up refers to the process of testing the various components of the units and ensuring the different equipment parts operate in coordination.

The first units to begin operation will be the 2-on-1 units, which feature two combustion turbines, two heat recovery steam generators and one steam turbine. This combined cycle technology allows for SRP to achieve the maximum amount of energy production from the amount of fuel consumed.

During start-up, members of the community may hear intermittent noise at higher sound levels and see some steam releases. These events will not occur at these higher levels once the units begin normal operation.

In late October, SRP will begin the "first fire" process in the combustion turbines. During this time, there will be occasions when these units are ignited and emissions may be visible from the 150-foot stacks. The number and duration of these events cannot be predetermined, but SRP will work to keep them to the absolute minimum.

The schedule for these activities, which may occur 24 hours a day on occasion, calls for completion by the end of November. After which the units will undergo a period of reassembly, lasting approximately one month. Following that, the units will begin a "first-run" process, in which the operators will be working to ensure the various components are operating as intended.

Individuals with questions regarding the Santan Expansion Project and its start-up activities should contact SRP's Public Involvement Department at (602) 236-2679, or log on to the Santan Expansion Project Web site [www.santanfacts.org](http://www.santanfacts.org) to see a schedule of the start-up activities.

### SANTAN EXPANSION PROJECT MILESTONES

- ◆ New unit construction began in spring 2003
- ◆ Phase 1 of the on-site landscaping program finished February 2004
- ◆ 37-mile natural gas line to serve new units completed April 2004
- ◆ Start-up of the 2-on-1 units to begin late October 2004
- ◆ 2-on-1 units to begin commercial operation by summer 2005
- ◆ Start-up on 1-on-1 units to begin in fall 2005
- ◆ 1-on-1 units to begin commercial operation by summer 2006



P.O. Box 52025  
Phoenix, AZ 85072-2025

PRSR STD  
US POSTAGE  
PAID  
PHOENIX AZ  
PERMIT NO 395

To stay up-to-date on SEP activities or sign up for e-mail updates, visit [www.santanfacts.org](http://www.santanfacts.org) and click of "Stay Informed."  
If you have questions, contact SRP at [webmaster@santanfacts.org](mailto:webmaster@santanfacts.org).

## COMMUNITY COMPATIBILITY DRIVES AESTHETIC EFFORTS

SRP is committed to ensuring that the Santan Generating Station is compatible with the surrounding community.

During the expansion project, tremendous effort has been made to address feedback received from Gilbert-area residents. A key element in these efforts has been an extensive on-site landscaping project with more than 1,200 trees, which sits on 20 acres of the 120-acre plant site. The landscaping includes a 25-foot-high berm on the north and west boundaries, which features mature trees, decorative gabion walls and low-water use ground-cover plants.

Along the east side of the site, SRP has provided an equestrian/bike trail, which links neighborhoods north of the facility to the recreational opportunities of the Town of Gilbert's Crossroads Park and SRP's canal system. A 10-foot high screening wall and footbridge over the Eastern Canal were constructed in conjunction with this project.

Landscaping efforts along the plant's southern boundary will be completed once plant construction is complete.

SRP also will paint the facility tan this winter.

