



## 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 growth in usage by customers and in the number of residential and commercial accounts. The power facility is located near the southeast corner of Val Vista and Warner roads.
- ◆ By locating new generating sources close to areas of demand, SRP can continue to provide the low-cost, reliable electricity its customers expect and deserve. Local generation proved critical to keeping the lights on and air conditioners running during a past summer power transmission challenge.
- ◆ The new units are state-of-the-art technology and use only natural gas for fuel. Designed to meet the electricity demands of SRP's retail customers, the new units are available to operate 24 hours a day, seven days a week.
- ◆ SRP made a substantial investment in community and site improvements, including painting visible structures, creating a recreational trail, and extensive landscaping to ensure the project's compatibility with surrounding neighborhoods.

**Editor's note:** This is the fifteenth 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.

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## START-UP BRINGS SANTAN TO FULL POTENTIAL

In October, SRP will begin the major start-up activities for the final new generating unit at the Santan Generating Station. Once those activities are completed, the newest unit will start commercial operation, most likely in spring 2006.

To achieve this "milestone," a number of key activities will be occurring in the prior months. The start-up process entails testing each piece of equipment and coordinating the different components and systems to operate together.

Combined-cycle technology has been used for the plant expansion. As such, the new unit features one combustion turbine, one heat recovery steam generator and one steam turbine. This technology allows SRP to achieve the maximum amount of energy production from the amount of clean, natural gas fuel consumed.

Members of the community may hear intermittent noises at sound levels greater than normal and see some steam releases during the start-up process. This is not a reason for concern and these events will not occur at the higher levels once the unit begins normal operation.

In mid-October, SRP will begin the "first fire" process of the combustion turbine. During this time, there will be occasions when the new unit is running and emissions may be visible from the 150-foot stacks. The number and duration of these events cannot be predetermined and SRP will work to keep them to the absolute minimum.

These activities will occur 24 hours a day on occasion, and the schedule calls for completion of the first phase of start-up by the end of November. After this initial phase, the unit will undergo a period of reassembly, lasting approximately six weeks. The unit will then re-start to complete the commissioning of the steam turbine systems, leading to a "first-run" process in which the operators will be working to ensure the various components are operating as intended and to prepare for the generation of electricity.

Have questions about the Santan Expansion Project and its start-up activities? For more information contact SRP's Public Involvement Department at (602) 236-2872, or log on to the Santan Expansion Project Web site [www.santanfacts.org](http://www.santanfacts.org) to see a schedule of start-up activities.

### Santan Expansion Project Milestones

- ◆ Expansion project construction began in spring 2003
- ◆ Phase 1 of on-site landscaping program finished February 2004
- ◆ 37-mile natural gas pipeline to serve new units completed April 2004
- ◆ First new generators, 2-on-1 units, began commercial operation in April 2005
- ◆ Start-up activities on final generator, a 1-on-1 unit, begins October 2005

# WHAT'S THE FUTURE HOLD FOR SANTAN?

As the last new unit undergoes final preparations for commercial operation, Santan Expansion Project Manager Bill Rihs outlined what lies ahead for the plant.

"Once Unit 6 is operational, SRP will focus on addressing the final aspects of the landscaping around the plant site," said Rihs. "The construction entrance on the northeast corner of the property will be minimized and new walls and plantings will help it blend with the extensive work done so far."

Inside the plant site crews will conduct the final grading and then pave the appropriate areas, which will aid in dust control.

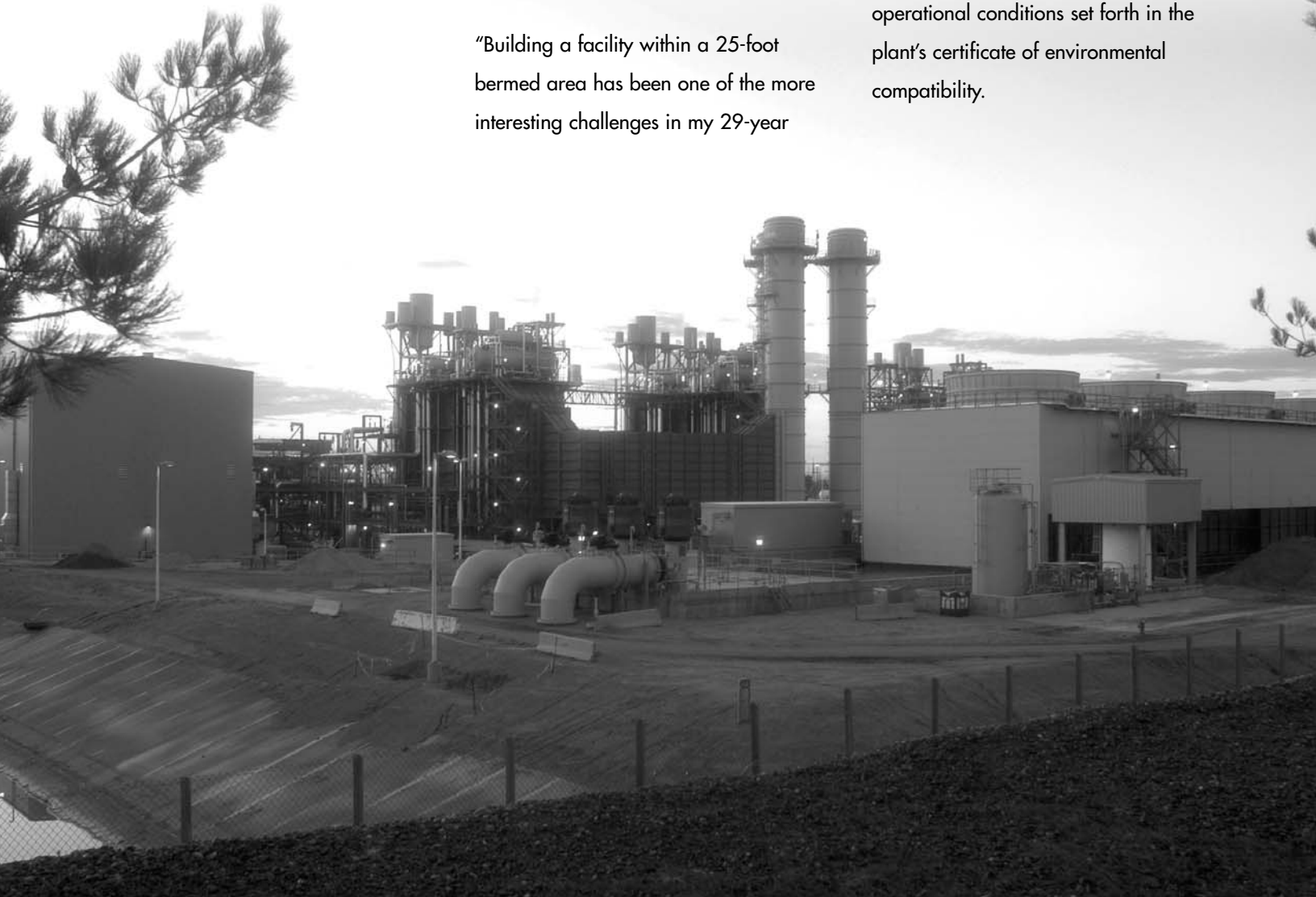
"Our plans include completing the landscaping along the southern edge of the property," Rihs said. "Again, as we complete construction and no longer need to use a portion for parking, we will be returning the site to SRP's operations folks."

Plans also include redesigning the main entrance to the plant site off of Val Vista Road.

"Building a facility within a 25-foot bermed area has been one of the more interesting challenges in my 29-year

career at SRP," said Rihs. "It has allowed me to expand my engineering horizons and has required a great deal of personal commitment. When we turn over the last unit to the Santan Generation Station team, it will be similar to sending one of my children off to college."

Santan Generating Station is managed by Barry Drost, who, with his team, is responsible for the operation and maintenance of the plant. They will ensure that the plant is available to provide a reliable, low-cost supply of electricity for SRP customers, and that it adheres to the operational conditions set forth in the plant's certificate of environmental compatibility.



# GOOD BYE ENERGY NEWS

## Stay Current With Santan Internet Site

This is the last issue of Energy News, the Santan Expansion Project (SEP) newsletter. As the project enters the final stages of completion, SRP brings to a close this publication aimed at keeping members of the Gilbert community informed.

The SEP Web site [www.santanfacts.org](http://www.santanfacts.org) will continue to provide interested individuals current information regarding the project. (See Santan Neighborhood Committee article at right.) To stay up-to-date on SEP activities, just visit the Web site and click on "Stay Informed". And while you're at the site, take a few minutes to look around to discover the wealth of information. If you have questions, contact SRP at [webmaster@santanfacts.org](mailto:webmaster@santanfacts.org).

## SANTAN NEIGHBORHOOD COMMITTEE MONITORS PLANT'S COMPLIANCE

The Santan Neighborhood Committee (SNC) is a citizens group coordinated and developed by SRP in conjunction with the Arizona Corporation Commission (ACC) and other regulatory agencies.

Monitoring the air emission and noise compliance as well as the water quality reporting related to the operation of the Santan Generating Station is the primary purpose of the SNC.

One of the conditions contained in the Santan Expansion Project's certificate of environmental compatibility issued by the ACC set forth the composition of the 10-member SNC. The condition requires one representative be selected by each of the following:

- ◆ Arizona Department of Health Services
- ◆ Maricopa County Air Quality Division
- ◆ Gilbert Town Manager
- ◆ Home Owners Association Boards of Cottonwood Crossings, Finley Farms South, Rancho Cimmaron, Silverstone Ranch and Western Skies.

SRP also was required to select a Gilbert resident who is a registered professional engineer and a representative from the unincorporated area south of the Santan site.

The SNC began meeting in September 2004 in preparation of the April 2005 commercial operation of the first units of the expansion project. Members worked to develop by-laws and establish the committee's structure. Early meetings were training sessions to better understand the operation of the plant and of the environmental data that it is required to monitor.

Gilbert resident Edward Mooney was elected as the SNC chair. Individuals with questions about the SNC and its mission of monitoring environmental aspects of the plant's operation can contact Mooney via e-mail at [ejmooney@msn.com](mailto:ejmooney@msn.com).

To help communicate the environmental information to the community at-large, in September 2005 SRP began posting the noise study and air emission data on the Santan Web site, [www.santanfacts.org](http://www.santanfacts.org).



# GILBERT TAKES OWNERSHIP OF EQUESTRIAN/BIKE TRAIL

On Sept. 13, SRP officially turned over ownership of a new equestrian/bike trail to the Town of Gilbert. Located along the east side of the Santan Generating Station, the equestrian/bike trail 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, unpaved equestrian resting areas, benches and lighting create a pleasant, safe route for recreational enthusiasts. The trail is part of SRP's more than \$20 million in community and site improvements completed as part of the Santan Expansion Project.



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).

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