

THIS MONTH AT THE

Cabrillo Marine Aquarium

A REC AND PARKS FACILITY

Grunion Fish-tival

Saturday, May 11
7 p.m.

Enjoy a night of fishy fun and celebrate southern California's very own grunion fish! Hatch grunion eggs, learn how to make grunion origami, participate in grunion arts and crafts, watch a classic grunion video, interact with grunion researchers, touch live tide-pool animals and see the many fish and other live animals in the Aquarium. Don't miss your chance to test your GQ (Grunion Quotient), or guess what's in the Mystery Box! After participating in fun grunion activities, everyone will head to the beach to observe these enchanting fish. During May, grunion may be observed but not captured. Warm clothing is recommended.

Admission: \$5 adults,
\$1 seniors, students & children
Parking: \$2

Support the Cabrillo Marine Aquarium!

Consider joining the Friends of Cabrillo Marine Aquarium

(310) 548-7410

www.cabrillmarineaquarium.org/support.asp



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AIRPORTS

LAX's New Utility Plant

Airports shows off LAX's under-construction Central Utility Plant.



Story and photos courtesy Airports

Guests joined airport officials on a construction "hard hat" tour April 11 of the \$438-million replacement Central Utility Plant (CUP) at Los Angeles International Airport (LAX). The new modern, state-of-the-art, energy-efficient, computer-managed utility plant will provide the heating and energy needs of the new, modernized LAX. The facility is scheduled to go into operation with the completion of Phase 1 construction this September.

"As part of the \$4.1 billion retrofit of LAX, the upgraded utility plant meets the demands of a thriving 21st century international airport while maintaining environmental sustainability," said Mayor Antonio Villaraigosa. "By following the City's daily energy cycle, the new plant allows LAX to work smarter, not harder, in our efforts toward increased energy efficiency."

The four-story, 64,000-square-foot facility will replace the existing 50-year-old utility plant and complies with Leadership in Energy and Environmental Design (LEED) Silver Certification standards established by the U.S. Green Building Council. The new CUP's innovative co-generation turbine will produce electricity and steam that, in turn, will help power a second set of generators to meet cooling and heating requirements in LAX buildings. This equipment reduces fuel consumption by up to 30 percent when compared to power generation done separately.

The new CUP will also be 60 percent more efficient in producing chilled water, using a thermal-energy storage tank with capacity for 1.6 million gallons of water and 15,500 ton-hours of cooling.

Water will be cooled late at night when electricity rates are lowest. The chilled water can then be used to cool the terminals during the day when passenger traffic is at its peak. This design eliminates the need to use a 3,260-ton chiller during the day.

"The need for reliable utility service and greater energy-efficiency is the reason that the new CUP is so crucial and why it will be the true heart of LAX when completed," said Van Thompson, Sr. Construction Engineer, Airports.

When completed, the new CUP will have the capacity to:

- Pump 97.1 million gallons of water daily, enough to fill 5,000 average-size swimming pools
- Provide enough chilled water to cool 373,500 homes
- Provide enough hot water for use in and to heat 16,200 homes
- Generate enough electricity to power 9,100 homes

The new CUP is a design-build project is being built by Clark-McCarthy joint venture. Phase 1 construction, scheduled to be completed in September, includes the plant itself along with all its major systems, water and electricity distribution systems. Phase 2 entails demolition of the nearly 50-year-old existing CUP facility and the activation of the cooling towers. Construction on Phase 2 will continue through August 2014.

The various construction projects at LAX

