



SANTA ANA NORTH ROTARY 1959

# The Rotations

Oct 17, 2012

WWW.SANTAANANORTHROTARY.ORG

## “San Onofre Nuclear Power Station”

### PRESIDENT’S REMARKS

Today, Chris Abel, Community Outreach Manager at Southern California Edison, and his assistant, Iris Hosea, presented about the San Onofre Nuclear Power Generating Station.

### PROGRAM

When both reactors 2 and 3 are running, the unit supplies 2,200 Megawatts of steady power and acts as a base load generator for Southern California and as a steady voltage maintaining unit.

Incident: January 2012, Unit 2 goes off for routine maintenance, pin holes discovered in high temperature dry steam tubes exchanger. Very negligible radiation leak (below dental x-ray amount).

There are about 40,000 tubes in each heat exchanger unit. Reactor is completely off line and examined thoroughly. More holes found. Reactor 3 stopped and tube bundles examined, worse than reactor 2. NO dangerous amounts of RADIATION TO ATMOSPHERE from either. Mitsubishi, the manufacturer of

the tubes and NRC (National Regulatory Commission) are told of the situation. It is estimated the engineering calculations at Mitsubishi underestimated the physical strain on the tubes and the amount of vibration in the heat exchange process.

Originally, the first set were made in the USA and lasted for many years with expected wear and tear. The US manufacturer is no longer in business. Mitsubishi is working with SCE to get unit 2 to be started at 70% of capacity and observed closely after NRC approval.

Please refer to website for safety information; in short plant is built to withstand a never happened tsunami, 30' and a rolling earthquake bigger than any previously experienced. Safety Drills are performed as needed.



Wednesdays 12:15 PM  
Antonello Ristorante  
1611 Sunflower Ave, Santa Ana

### UPCOMING SPEAKERS

Oct 24 – Free Wheelchair Mission  
Oct 31 – SAN Social

### UPCOMING EVENTS

Nov 17 – Annual District 5320 Foundation Dinner @ Hilton Irvine. Tickets \$65.

# Program

Speaker: Chris Abel

The twin reactor units at Southern California Edison's (SCE) San Onofre Nuclear Generating Station, near San Clemente, California, are Southern California's largest and most reliable sources of electricity. Jointly owned by SCE, San Diego Gas & Electric, and the city of Riverside, the units can generate 2,200 megawatts of power, enough to meet the needs of 1.4 million average homes at a point in time.

Nothing matters more to the men and women who operate our San Onofre facility



than safety. That's more than a professional commitment by experienced nuclear specialists. It's personal. Most plant workers live and raise their children in nearby communities.

The San Onofre Nuclear Generating Station serves customer needs day and night regardless of weather variables. And the fact that nuclear energy is virtually emission-free means the plant is increasingly valuable for meeting California's air-quality standards and pursuit of a low-carbon energy future. Compared to fossil-fuel generation sources, the plant has thus far helped avoid 100,000 metric tons of smog-producing pollutants and 180 million metric tons of carbon emissions.



## The Rotations

Santa Ana North Rotary  
P.O. Box 11571  
Santa Ana, CA 92711-1571