



Leading the Industry Steam Generator Replacements

Bechtel Power Corporation



Palo Verde 2

At 805 tons each, largest steam generators ever replaced



Sequoyah 1

The first through-the-dome replacement in ice condenser-designed containment

Since the first steam generator replacement at a U.S. power plant more than 25 years ago, Bechtel has performed more SGR projects than any other contractor. Our experience to date as prime contractor for an SGR comprises 24 completed projects. Leading the industry in technology and safety, Bechtel has set and reset industry records for lowest radiation exposure, and shortest outage and personnel safety.

Bechtel's SGR Industry Achievements

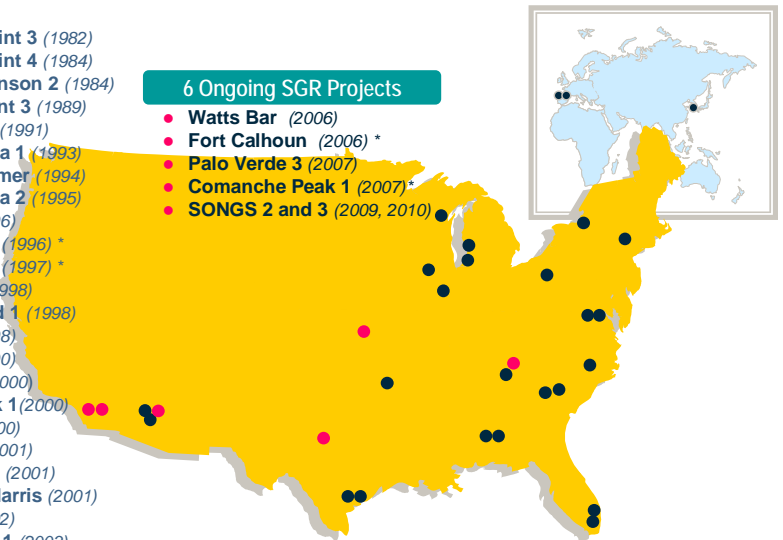
- Lowest U.S. SGR accumulated radiation exposure — 59 manrem
- First U.S. one-piece replacement
- First replacement using a construction opening in the containment wall
- First U.S. replacement to use optical templating to aid fitup of new steam generators
- First hydrodemolition of the containment wall
- Replaced largest steam generators in the world

26 Completed SGR Projects

- Turkey Point 3 (1982)
- Turkey Point 4 (1984)
- H. B. Robinson 2 (1984)
- Indian Point 3 (1989)
- Palisades (1991)
- North Anna 1 (1993)
- V. C. Summer (1994)
- North Anna 2 (1995)
- Ginna (1996)
- Almaraz 1 (1996) *
- Almaraz 2 (1997) *
- Byron 1 (1998)
- Braidwood 1 (1998)
- Kori 1 (1998)
- STP-1 (2000)
- Farley 1 (2000)
- D. C. Cook 1 (2000)
- ANO-2 (2000)
- Farley 2 (2001)
- Kewaunee (2001)
- Shearon Harris (2001)
- STP-2 (2002)
- Sequoyah 1 (2003)
- Palo Verde 2 (2003)
- Palo Verde 1 (2005)
- Beaver Valley 1 (2006) *

6 Ongoing SGR Projects

- Watts Bar (2006)
- Fort Calhoun (2006) *
- Palo Verde 3 (2007)
- Comanche Peak 1 (2007) *
- SONGS 2 and 3 (2009, 2010)





Bechtel SGR Feasibility Studies

Bechtel has been in the forefront of all aspects of steam generator replacements, including performing more than 34 separate SGR feasibility studies. These studies include technical evaluations, cost and schedule estimates, and recommendations for optimized methodology.

- Palisades (1975, 1978)
- Turkey Point Units 3 and 4 (1976)
- Indian Point Unit 3 (1983)
- Ringhals Unit 2 (1985)
- Indian Point Unit 2 (1986)
- St. Lucie Unit 1 (1988, 1991)
- North Anna Units 1 and 2 (1989)
- Ascó Units 1 and 2 (1990, 1991)
- V. C. Summer (1990)
- Ringhals Units 3 and 4 (1990)
- Farley Units 1 and 2 (1990)
- Point Beach Unit 2 (1991)
- R. E. Ginna (1990, 1991)
- Trojan (1991, 1992)
- Beaver Valley Units 1 and 2 (1992, 2001, 2002)
- Shearon Harris (1994)
- South Texas Unit 1 (1994)
- Byron Unit 1 and Braidwood Unit 1 (1995)
- Palo Verde Unit 2 (1995)
- Calvert Cliffs 1 and 2 (1996)
- Maine Yankee (1996)
- Sequoyah 1 (1998)
- Callaway (1998)
- San Onofre Units 2 and 3 (2002, 1998)
- Diablo Canyon 1 and 2 (2000, 2001)
- Fort Calhoun (2002)

Bechtel's Safety Record

Safety is always first at Bechtel—a key value and fundamental to our culture.

In 2004, Bechtel maintained its industry-leading record, achieving zero lost-time incidents on 90 percent of its projects worldwide.

SGR Performance - Safety Statistics Lost-Time Accidents

Year	No. Projects Active in the Field	Hrs. Worked	Bechtel LTA	SC LTA
2000	8	2,949,420	0	1
2001	5	2,064,069	0	0
2002	5	918,883	0	0
2003	5	1,918,839	0	0
2004	4	82,936	0	0
2005	8	641,800	0	0
TOTAL		8,575,947	0	1

Safety on the Job

number of lost-workday incidents per 100 workers per year

