

Sargent & Lundy Services:

- ❑ Substation Engineering & Design
- ❑ Transmission Line Engineering & Design
- ❑ Distribution Line Design Review
- ❑ Electrical Testing & Commissioning
- ❑ Construction Monitoring & Quality Assurance

The Wasatch Front Quantum Leap Project significantly improved the capacity and reliability of the PacifiCorp T&D system in rapidly growing metropolitan Salt Lake City; from Provo to Ogden, Utah. Sargent & Lundy performed the engineering for this major program as part of an Engineer/Procure/Construct (EPC) Team.

Quantum Leap encompassed a significant number of transmission and distribution projects, including the following that were within the EPC Team scope of work:

- ❑ 12 new 138/46 kV substations
- ❑ 13 substations to be upgraded to increase capacity
- ❑ 10 substations to be converted to increase the high-side voltage from 46 kV to 138 kV
- ❑ 7 transmission projects involving a total of approximately 50 miles of 138 kV line, plus an additional 15 miles of line to accommodate the new and upgraded substation projects
- ❑ 150 distribution feeder projects

The project had a very aggressive schedule. The EPC Team began the initial project work in November 2002; about one half of the projects were placed in-service by June 2003 and the second half by June 2004.

Sargent & Lundy's scope of work for this project included complete substation engineering, transmission line engineering, distribution project coordination and design review, construction monitoring and quality assurance, and electrical testing and commissioning.

The EPC Team was headed by Kenny Construction Company of Wheeling, IL, and included Sargent & Lundy LLC, Chicago, IL and Sturgeon Electric Company of Salt Lake City, UT.



PacifiCorp is one of the West's leading utilities with 1.7 million customers; operating as Pacific Power in Oregon, Washington and California and as Rocky Mountain Power in Utah, Wyoming and Idaho.