

WASATCH FRONT QUANTUM LEAP PROJECT



PacifiCorp
Portland, Oregon

Sargent & Lundy Services:

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

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

The EPC Team is headed by Kenny Construction Company of Wheeling, IL, and includes Sargent & Lundy LLC, Chicago, IL; Sturgeon Electric Company of Salt Lake City, UT; and Electrical Consultants, Inc. (ECI) of Billings, MT.

Quantum Leap encompasses a significant number of T&D projects, including the following that are 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 has 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 includes complete substation engineering, transmission line engineering, distribution project coordination and design review, construction monitoring and quality assurance, and electrical testing and commissioning.

