

**BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH**

In the Matter of the Application of  
PacifiCorp for a Certificate of  
Convenience and Necessity Authorizing  
Construction of the Lake Side  
Power Project..

Docket No. \_\_\_\_\_

**DIRECT TESTIMONY OF KURT STEINEBRONN**

1 **Q. Please state your name and business address.**

2 A. My name is Kurt Steinenbronn. My business address is 4400 Alafaya Trail, MC Q1-301  
3 Orlando, Florida 32826-2399.

4

5 **Q. What is your occupation?**

6 A. I am Vice President, Western Region of Siemens Westinghouse Power Corporation .

7

8 **Q. Please describe your educational background and experience.**

9 A. This information is included in Appendix A to my testimony.

10

11 **Q. On whose behalf are you appearing in this proceeding?**

12 A. I am appearing on behalf of Siemens Westinghouse Power Corporation in support of  
13 PacifiCorp's application for a Certificate of Convenience and Necessity authorizing the  
14 construction of the power plant to be built at the Geneva site in Utah County.

15

16 **Q. Could you please give us some background on Siemens Westinghouse Power  
17 Corporation?**

18 A. Siemens Westinghouse Power Corporation (SWPC) is a Siemens Company. It is a  
19 subsidiary of Siemens Corporation, which is a subsidiary of Siemens AG.

20

21 **Q. Could you give us some background on the relationships of the corporate entities?**

22 A. Siemens AG is a global company, headquartered in Munich, Germany, with \$84 billion  
23 in sales, \$2.5 billion in net income, and \$5.7 billion in research and development. Siemens AG

1 has 426,000 employees, a presence in 190 countries, and is twenty-second on the Fortune 500 of  
2 global companies. It is also publicly traded on the New York Stock Exchange and the European  
3 stock exchange. The business segments of Siemens AG include: Energy and Power, Industry and  
4 Automation, Information and Communications, Transportation, Health Care, Lighting,  
5 Components, Finance and Real Estate.

6 Globally, Siemens Power Generation is headquartered in Erlangen, Germany. It has \$9.5 billion  
7 in sales and \$1.6 billion in net income. It invests \$200 million annually in research and  
8 development and has nearly 30,000 employees. Siemens Power Generation has over 655,000  
9 megawatts of installed capacity and has manufacturing locations in the U.S., Canada, Germany,  
10 Brazil, China, Great Britain, Hungary, India, Malaysia, and Indonesia. It offers total lifecycle  
11 support for engineering, manufacturing and servicing a full-spectrum of environmentally  
12 friendly, cost-effective products including gas and steam turbine-generator technology and  
13 world-class process control and power management systems.

14  
15 Siemens Corporation, the US holding company for Siemens AG operations in the United States,  
16 is headquartered in New York, New York, with 700 locations in the U.S., including 100  
17 production facilities. Siemens Corporation has \$17 billion in sales and 65,000 employees. Its  
18 business segments include: Energy and Power, Industry and Automation, Information and  
19 Communications, Health Care, Transportation, Microelectronics and Components, Lighting and  
20 Precision Materials.

21  
22 SWPC is the North American and South American business entity of Siemens Power  
23 Generation's global fossil power generation business. SWPC is headquartered in Orlando,  
24 Florida, and has 6,500 employees. SWPC has over 300,000 MW of installed capacity in the  
25 Americas and equipment from Siemens Westinghouse generates one-third of the electricity in the  
26 U.S. Revenues for Siemens Power Generation systems and services exceeded \$4 billion last year  
27 just in the United States.

28  
29 In the six-state region served by PacifiCorp, Siemens companies have more than 6,000  
30 employees, operates in over 100 locations and pays more than \$500 million to vendors.

1 As part of one of the largest companies of the world, Siemens Power Generation offers its  
2 customers stability through financial strength and more than 150 years of power generation  
3 expertise.

4  
5 **Q. What is SWPC's relationship with Summit?**

6 A. Summit and SWPC have enjoyed a long-term relationship, participating on a contract  
7 basis in twelve projects over the past six years.

8  
9 **Q. What is SWPC's role in the PacifiCorp project at the Geneva site in Utah county?**

10 A. SWPC will be responsible for plant engineering, project management, start-up, and  
11 commissioning the 534-MW plant pursuant to an engineering, procurement, and construction  
12 (EPC) Contract with Summit. In addition, once the plant is completed, SWPC will provide  
13 service for the plant through a twelve-year long-term maintenance program service agreement  
14 with PacifiCorp. As a result, SWPC's contract obligations to provide the products and services of  
15 this project will be supported by the financial stability and resources of the Siemens companies.

16  
17 We are prepared to mobilize the vast capabilities that exist within our global workforce to serve  
18 the unique needs of PacifiCorp. Globally, Siemens Power Generation has thirty service offices,  
19 nine factory service locations, ten repair facilities, and more than 3,000 service personnel in the  
20 field. We believe that global scale drives local responsiveness.

21  
22 **Q. Will SWPC operate the plant?**

23 A. No. SWPC will construct the plant through an EPC contract with Summit and then  
24 SWPC will provide component maintenance through a long-term service agreement with  
25 PacifiCorp. However, PacifiCorp will own and operate the plant once construction is completed.

26  
27 **Q. Could you please describe SWPC's relationship with PacifiCorp?**

28 A.. SWPC has a long-term relationship with PacifiCorp. For more than 50 years, SWPC has  
29 provided power generation equipment and service to the company. Attached as Exhibit KS-1 is a  
30 list of some of the PacifiCorp projects on which we have worked.

1 **Q. Can you please give us a high-level description of the facility that SWPC will build**  
2 **for PacifiCorp?**

3 A. The plant at the Geneva site will be a 534-MW gas-fired, combined-cycle plant. It will be  
4 comprised of two (2) W501F gas turbine generators, two (2) duct-fired heat recovery steam  
5 generators and one (1) two-case reheat steam turbine generator in a 2 on 1 combined cycle  
6 configuration.

7  
8 There are currently 186 W501F gas turbines in service. The fleet of W501Fs has amassed over  
9 2,000,000 operating hours. The W501F consists of a 16 stage axial compressor, a Dry Low NOx  
10 combustion system and a 4-stage reaction type turbine section. The W501F gas turbine is  
11 provided in an ECONOPAC™ scope of supply, which includes items such as an open air-cooled  
12 generator, starting package, electrical package, mechanical package and lubricating system,  
13 instrument air system, hydraulic oil system, gas fuel system, inlet air system and filter and a fire  
14 protection system. The W501F is directly coupled to an air-cooled generator that is equipped  
15 with a cooling air filter, silencers, inlet and exhaust ducting and an acoustical enclosure. The  
16 Heat Recovery Steam Generator (HRSG) is a three-pressure reheat HRSG that produces steam  
17 for the steam turbine. The gas turbine exhaust gas flows horizontally through the HRSG  
18 releasing heat through the finned tubes to the water/steam cycle. The Steam Turbine is  
19 designated as a KN steam turbine that consists of a combined High Pressure (HP)/Intermediate  
20 Pressure (IP) turbine element and a double flow Low Pressure (LP) turbine element. The KN  
21 Steam Turbine is a standard Siemens Product used throughout the world for combined cycle  
22 applications. The components described are combined in a standard, reference design combined  
23 cycle plant that has been applied in nearly 50 power plants around the world. This equipment  
24 will provide a reliable, cost-efficient power generation solution. The plant is expected to be  
25 commissioned in the summer of 2007.

26  
27 **Q. Does that conclude your testimony?**

28 A. Yes, it does.