

TECHNICAL TOURS

GIS SUBSTATIONS

Visit two Puget Sound Energy GIS distribution substations on one tour! “Bowlake” substation was constructed in 2000 to serve the airport and surrounding area, and contains a 6-breaker 115kV GIS ring bus and 12kV Metalclad Switchgear. “Lochleven” substation was constructed in 2006 to serve the downtown Bellevue area, and contains a 4-breaker 115kV GIS ring bus and two 12kV switchgear lineups. Both stations were total rebuilds of existing older facilities, and GIS was necessary to significantly expand the station capacity within a fixed footprint.



Busses will take visitors from the conference for a 30-45 minute visit at each location. PSE design engineers will present information on the projects, and manufacturer’s representatives will be on hand to answer questions.

Monday April 16, 2007 4:00pm – 6:30pm, (meet in the lobby at 3:30pm), \$30 per person

SNOQUALMIE FALLS GENERATING STATION



Visit history! Snoqualmie Falls Generation Project was the world’s first total underground power plant. The powerplant was tunneled into the rock about 270 feet below the top of the falls. Water is diverted from the top of the falls, down a vertical penstock to the turbine cavity, and exits at the base of the falls. The plant was originally constructed in 1898, and has a capacity of

11MW. The plant received a new 40 year operating license in 2004, and significant upgrades to the facility are currently under design.

Busses will take visitors from the conference for a scenic 45 minute trip up into the Cascade Mountains. PSE engineers and plant operators will discuss the plant’s history and the plans and challenges associated with the upgrades. The group will tour the underground powerplant and historic area.



Wednesday April 18, 2007 3:00pm – 6:00pm, (meet in the lobby at 2:30pm), \$25 per person

WILD HORSE WIND FARM

Visit the newest and largest Wind Power Plant in Washington State and two switchyards constructed for its interconnection to the grid. Wild Horse Wind Farm was commissioned in 2006, and contains 127 turbines for a rated output of 229MW. The turbines cover 9,000 acres near Kittitas in central Washington State. The turbines are the largest in the State, with a rotor diameter of 264 feet (larger than the wingspan of a Boeing 747).



Busses will take visitors from the conference for a 2-1/2 trip over the scenic Cascade Mountains and beautiful Snoqualmie Pass. A box lunch will be provided on the trip, and PSE engineers and program managers will discuss the project. The tour will include the wind farm, the 34/230kV collector station, and the 230kV interconnection switchyard.

Thursday April 19, 2007 9:00am – 5:00pm (meet in the lobby at 8:30am), \$50 per person

NOTE FOR ALL TECHNICAL TOURS

Tour ending times are approximate and tours may longer over depending on traffic.

Tours are of energized and operating facilities. Clothes should be appropriate for the environment; no open-toed shoes, umbrellas, etc. PSE will provide hardhats and hearing/eye protection as necessary.

Some walking and stairs are present in all of the tours. Accommodations can be made to minimize walking and stairs on request; please let us know when registering.