



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

IEEE CONNECTION

IEEE - SPOKANE SECTION **OCTOBER 2006**
 10 N POST STREET Suite # 500 SPOKANE, WA 99201
<http://ewh.ieee.org/r6/spokane/>

ON Site Tour of BOULDER PARK STATION and SUBSTATION

Date: **Wednesday, OCTOBER 18, 2006**

Place: Boulder Park
 4324 N. Barker Rd.
 Spokane, WA 99027.

From the Freeway: Take the Barker Road Exit. Head north on Barker, cross over the Spokane river. Turn right at the sign (Boulder Substation). By the end of the pavement turn right and follow around to the gate.

From Trent: Turn South on Barker. about. 200 yards turn left (sign Boulder Substation). By the end of the pavement turn right and follow around to the gate.

Time: SOCIAL with Pizza & Drinks: 18:00 to 18:45 (RSVP if you need VEGETARIAN PIZZA / bring guest)
 FIELD TRIP FOLLOWS.

RSVP: by OCTOBER 16 to jimchen@ieee.org. Last minute walk-ins are welcome.

TOUR LEADER: GLEN FARMER, AVISTA

TOPIC: The Boulder Park Generating Station initial plant operation was April 1st, 2002. The total plant capacity is 24.6 MW. There are 6 Units each made up of the following: Leroy-Somer synchronous Brushless Generator, 900 RPM, 13.8 kV; Prime Mover is a Wartsilia Four Stroke Natural Gas Engine, 18 Cylinders (11 inch bore). Special items were added to meet Environmental requirements. Selective Catalytic Reduction unit and CO catalysts were installed to reduce carbon monoxide emissions. NOx Catalysts (area injection) were installed to reduce nitrogen oxide emissions. Sound containment compartments were installed to reduce noise levels.
 Boulder Substation is one of the newest 230 kV substation Avista has constructed to meet some of the transmission constraints in the area. This substation has three 230 kV lines incorporating double breaker, double bus configuration, two step-down transformer which feed six 115 kV lines.

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