

HEATEC BULLETIN

Product news from Heatec Inc., an Astec Company 5200 Wilson Road, Chattanooga, TN 37410 Phones 423-821-5200 800-235-5200 www.Heatec.com



Wyoming power plant heats inlet air for new turbines

The Black Hills Power and Light Company in Gillette, Wyoming uses two Heatec heaters to heat inlet air for their two new gas-turbine generators.

The turbine generators produce electricity to supplement power generated by older steam-powered generators in nearby facilities. Each generator is rated at 37.9 MW.

Heating combustion air prevents formation of ice during sub-zero or icing conditions. Ice can damage the turbines. The two Heatec heaters each produce 13.5 million Btu/hour. They maintain the temperature of water-glycol solution in the heating loop at 200 degrees F for heating the inlet air.

Note the low NO_x burner. It has a rain/snow shield and piping to recirculate gases from the exhaust stack. Also note the stainless steel control panel.



The new addition to the Black Hills Power and Light Company's facility, adjacent to their old steam powered plant, once the world's largest air-cooled power plant.



Each heater has a low NO_x burner equipped with a shield to prevent entry of rain and snow into its inlet air. Flue gas is recirculated to the burner reducing NO_x emissions to 30 ppm.

Each heater has an electrical control panel designed for use in an explosive atmosphere. They meet requirements of NEMA 4X. They are made of stainless steel and are pressurized with dry, compressed air from a safe source.



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