

Caledonia Water Supply Line

Cogentrix Energy, Inc.

In August 2001, Cogentrix Energy awarded Willbros a lump sum contract for the design, procurement of material, construction and start-up of the water supply and return water pipelines which provide cooling water to the 810-megawatt electric generating power plant near Caledonia, Mississippi.

Services include project management, detailed design, procurement, construction, field services, permitting, commissioning, startup, testing and the preparation of operating and maintenance manuals and as-built drawings.

A new pump station, equipped with four vertical turbine pumps in a wet well, will discharge effluent water from the Columbus Light and Water Department Wastewater Treatment Plant into the water supply pipeline. Designed to deliver up to 7.2 Mg/d, the 17-mile, 24-inch supply line will transport the water to a storage tank at the Caledonia Generating Station. Three vertical turbine pumps, in a wet well, will discharge the used cooling water into a 10-inch return pipeline that will transport it back to the wastewater treatment plant at a design rate of 1.0 Mg/d. Electric power and controls for the pumps will be installed at both stations. The return water is discharged into two lagoons, both of which required installation of outfall structures and slope renovation.

Four mainline valves divide the supply line and the return line into five segments to minimize loss of water in the event of a line break. The project requires three, directional-drilled water crossings ranging from 850 to 1,500 feet.

*Project Award
August 2001*

*Project Completion
September 2002*

United States

