

Blue Ridge Dam Rehabilitation

Blue Ridge, Fannin County, Georgia



J.M. Wilkerson Construction Co., Inc. was selected to work with Garney Construction, out of Kansas, MO, to update this significant category 1 structure in Blue Ridge, GA.

Completed in 1931 by the Tennessee Electric Power company (TEPCO) and acquired by the Tennessee Valley Authority in 1939, the Blue Ridge Reservoir consists of an embankment dam, a gated saddle spillway, and additional un-gated spillway, and intake tower, a low level outlet structure, and a power plant. Due to new regional seismic hazard studies, it was determined that remedial measures were required for the intake tower and both upstream and downstream slopes to ensure stability during and after the design seismic event.

JMW was responsible for construction of a new downstream embankment rock berm on the existing downstream face of the dam, modifications and repairs to the existing toe drain system, relocation of underground utilities near the powerhouse, relocation of the powerhouse access road, including the construction of two MSE walls and the removal of portions of the upstream slope of the dam, replacement of aggregate filter materials and riprap. Over 500,000 tons of materials were replaced on the slopes of this structure

Erosion Control

Silt Fence, Hay Bales, Ditch Checks, Check Dams, Rip Rap

Owner

Tennessee Valley Authority
Chattanooga, TN.

Program Manager / Prime Contractor

201 Westside Pkwy, Suite 180
Alpharetta, GA 30004

Architect

Paul C. Rizzo Associates, Inc.
Suite 100, Building 5
500 Penn Center Blvd.
Pittsburgh, Pennsylvania 15235

Start Date

June 2010

Completion Date

March 2012

Contract Amount

\$6.3 Million



Building for Generations