



Project:

Philpott / Kerr Reservoir Projects
Station Service Rehabilitation

Contract:

W912HN-06-C-0008
KECI 05-2166

Location:

John H. Kerr Powerhouse
Boydton, VA
Philpott Powerhouse
Bassett, VA

Owner Representative:

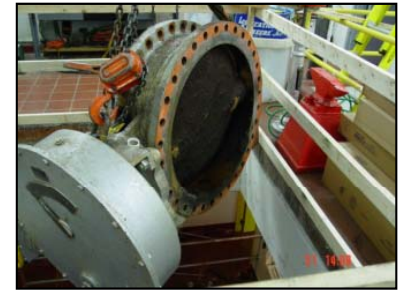
U.S. Army Corps of Engineers
Wilmington District
5460 Buggs Island Road
Boydton, VA 23917-9801
Matthew Folk, ACO
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Start / Completion Dates:

February 2006 / December 2009

Original / Revised Contract Amount:

\$4,519,870 / \$6,256,895



Description of the project:

Rehabilitation of Station Service Turbine Generators at the Philpott (Secondary Unit) and John H. Kerr (Units A & B) Hydroelectric Powerhouses in Virginia. The scope of work includes turbine and wicket gate refurbishment, generator rewinds, governor retrofits, and excitation retrofits. Rehabilitate two 1250 kVA, 480V stations service units at John H. Kerr Powerhouse and one 750kVA, 480V station service unit at Philpott Powerhouse. Rehabilitate existing station service alternating current hydro-generator complete with new stator windings, new coolers, housing modifications, new RTDs, new speed sensor and transmitters, new interconnecting control wiring to the closest terminal cabinet, and all associated accessories. Refurbish thrust and guide bearings. Remove and dispose of asbestos control wiring to the closest terminal cabinet. Replace the existing rotating exciter and voltage regulator with a new static exciter fed from a new PPT tap of the generator output bus. Replace the existing analog electric Proportional Integral Derivative (P-I-D) governors to electronic digital P-I-D. Replace all cooling water piping with new. Replace penstock butterfly valve at the Philpott plant.



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