

PHILPOTT / KERR STATION SERVICE REHABILITATION

CONTRACT NO / AWARD DATE:

W912HN-06-C-0008/ September 27, 2005
KECI NO 05-2166

JOB SITE LOCATION:

John H Kerr Powerhouse
Near Boydton, VA on the Roanoke River,
Mechlenberg Co., VA
Philpott Powerhouse
Bassett, VA

OWNER:

U.S. Army Corps of Engineers
Wilmington District
5360 St Rt 800 NE
Dover, OH 44622
Matthew Folk, ACO
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GENERAL CONTRACTOR:

Koontz Electric Company, Inc
1223 E Broadway
Morrilton, AR 72110
Project Manager: Dean Hoover
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INITIAL MOBILIZATION / COMPLETION DATE:

March 2006 / July 2010

AWARDED / REVISED CONTRACT AMOUNT:

\$4,519,870 / \$6,014,870.91

*Price Increase Due to Government
Requested & Approved Change Orders*

SCOPE OF WORK:

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 included turbine and wicket gate refurbishment, generator rewinds, governor retrofits, and excitation retrofits. KECI rehabilitated two 1250 kVA, 480V station service units at John H. Kerr Powerhouse and one 750kVA, 480V station service unit at Philpott Powerhouse. KECI rehabilitated the 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. KECI refurbished thrust and guide bearings. KECI Removed and disposed of asbestos control wiring to the closest terminal cabinet. KECI replaced the existing rotating exciter and voltage regulator with a new static exciter fed from a new PPT tap of the generator output bus. KECI replaced the existing analog electric Proportional Integral Derivative (P-I-D) governors to electronic digital P-I-D. KECI replaced all cooling water piping with new. Finally, KECI replaced the penstock butterfly valve at the Philpott plant.

