



## JH KERR POWERHOUSE REHAB

**CONTRACT NO / AWARD DATE:**

DACW54-03-C-0005 / February 2003  
KECI NO 02-2142

**JOB SITE LOCATION:**

John H Kerr Powerhouse  
Turbine / Generator Units 1-7  
Near Boydton, VA on the Roanoke River,  
Mechlenberg Co., VA

**OWNER:**

U.S. Army Corps of Engineers  
Wilmington District  
5460 Buggs Island Road  
Boydton, VA 23917-9801  
Matthew Folk, ACO  
T 434-738-6633 x270  
matthew.w.folk@saw02.usace.army.mil

**GENERAL CONTRACTOR:**

General Electric Company Hydro  
1 River Road, Bldg 2-4333  
Schenectady, NY 12345  
Project Manager: Bob Reynolds  
T 518-385-8596

**INITIAL MOBILIZATION / EST. COMPLETION DATE:**

September 2003/ May 2011

**AWARDED / CURRENT CONTRACT AMOUNT:**

\$6,372,604 / \$7,834,771.75



U N D E R C O N S T R U C T I O N

**SCOPE OF WORK:** This project is a \$46 million plus major renovation for replacement of turbines, restacking and rewinding of generators, replacement of GSU transformers and extensive balance of plant equipment. The general contractor is General Electric Company Hydro, Lachine, Quebec, Canada. Koontz Electric Company was awarded a subcontract by General Electric for the balance of plant electrical work. The work consists of:

1. Removing existing GSU transformers and installing (1) 15 MVA and (6) 41 MVA new GFE up-rated transformers, 15kV iso-phase bus and 115kV high voltage connection to the switchyard cables.
2. 13,800 volt metal clad switchgear to provide an alternative station service power source. The switchgear is connected into existing generator iso-phase bus.
3. Furnish and install a new 2 MVA unit substation. The unit substation transformer is fed from the 13,800 volt switchgear above. The 480 volt switchgear portion of the unit substation is operated synchronized to existing station service generators.
4. Replace the existing 480 volt distribution switchboard with new 2,000 amp bus switchboard and distribution breakers.
5. Replace the existing telephone relay annunciator system with state of the art sequence of events recorder and annunciator system.
6. Replace reactor grounding for generators with new high impedance transformer grounding equipment.
7. Install GFE static exciters for all units.
8. Install Digital Governors for all units.
9. Perform all wiring for generator and turbine auxiliaries.
10. Perform asbestos abatement work. (subcontracted)
11. Dispose of PCB bushings.