



GRAND COULEE GSU TRANSFORMER REPLACEMENT

CONTRACT NO / AWARD DATE:

09CC101676 / March 11, 2009
KECI NO 08-2198

JOB SITE LOCATION:

Bureau Of Reclamation
Construction Engineering Group
HWY 155 Industrial Area
Warehouse B, Door 6
Grand Coulee, WA 99133
Point of Contact: George Marrs
T 509.633.9414
F 509.633.9330

OWNER:

US Department of the Interior
Bureau of Reclamation
Contracting Officer PN-3700
1150 N Curtis RD, Suite 100
Boise, ID 83706-1234
Contracting Officer: Terry Ford
T 208.378.5364
tford@pn.usbr.gov

GENERAL CONTRACTOR:

Koontz Electric Company, Inc
1223 E Broadway
Morrilton, AR 72110
Project Manager: Jamie Zimmerman
T 501.354.2526 ext 135
F 501.354.2580

SUBCONTRACTOR:

Electrical Technologies
12335 W 53rd Ave Suite 200
Arvada, CO 80002
Oil Processing & Testing
Point of Contact: Gerry Suman
T 303.462.0317

INITIAL MOBILIZATION / COMPLETION DATE:

August 2009 / March 2011

AWARDED / CURRENT CONTRACT AMOUNT:

\$5,656,219 / \$5,656,219

SCOPE OF WORK:

This project included the design, fabrication, installation and startup of three single phase GSU Transformers, designated as K10A at the Bureau of Reclamation's Grand Coulee Right Powerplant in Grand Coulee, WA. K10A is a bank of three single phase, 60-hertz, outdoor, generator step-up type units. Each unit has a capacity of 50MVA and a voltage rating of 230/13.8kV.

Koontz Electric purchased the new transformers from WEG Electric and worked closely with their engineering department and the Bureau of Reclamation to ensure specification requirements were met.

Upon arrival to site the transformers were inspected, assembled, processed and tested. This required close coordination with heavy haulers, crane operators, transformer service technicians and plant personnel. Once the transformers were onsite, Koontz was responsible for removing the existing units from service and storing two of them in long term storage. Koontz worked within the Bureau's Hazardous Energy program to ensure personnel safety throughout the project. Along with the units, Koontz also removed existing cooling water piping, surge arresters and all other associated appurtenances.

Once removed, Koontz Electric installed the three new units, including high side jumper bus connections, low side isolated phase bus connections, grounding, and anchoring. The anchor system itself was a custom engineered seismic rated system, which required extensive design and a challenging installation. Once installed, the units underwent final testing and were turned over to the Bureau for operation.

Koontz Electric was required to dispose two of the old the old transformers according to all state and federal regulations.