

**GREENVILLE UTILITIES COMMISSION  
GREENVILLE, NORTH CAROLINA**

**SPECIFICATIONS AND BID DOCUMENTS  
FOR  
TWO (2) 20 MVA, 115 TO 13.2Y/7.62 kV POWER TRANSFORMERS  
WITH LTC FOR SUGG PARKWAY AND FROG LEVEL SUBSTATIONS**

March 18, 2011

TO: All Prospective Bidders and Others Concerned

SUBJECT: ADDENDUM NO. II

The intent of this addendum is to notify all prospective bidders and others concerned that the Specifications and Bid Documents are hereby modified as follows:

1. Replace page 28 with the attached Addendum No. II.

The foregoing changes shall be incorporated in the Specifications and Bid Documents.

Please acknowledge receipt of this addendum by e-mailing Cleve Haddock, Purchasing Technician at [haddocgc@guc.com](mailto:haddocgc@guc.com).

Manufacturer with the design of the transformer it proposes to furnish and shall include the dates of installation or shipping, the ratings of the transformers, and the failures and causes of failure, if any have been experienced.

- c. The Bidder shall submit with his Proposal a complete listing of all full-size transformers of his manufacture, in ratings 501 through 30,000 kVA, which have been short-circuit tested. The list shall include all full-size units tested, whether they were development tests or tests of customer units. Complete ratings shall be given of each unit and each shall be noted as to whether copper or aluminum windings were used for comparison with that winding material offered on this bid.

In the case of units tested for or by the ultimate customer, indication shall be given on each unit as to whether the test was successful or unsuccessful and, if tested more than once, each subsequent test shall be so listed and appropriate comments given as to design changes made, if any.

- d. If the Bidder cannot furnish such test data, he shall so state on the Proposal.

#### 11.0 Guarantees

Included with the transformer data to be submitted by the Supplier with his Proposal shall be the following:

- a. Efficiencies at 1/4, 1/2, 3/4, and full load at unity power factor and 75°C.
- b. Total full-load loss in watts at each rating and temperature rise, plus auxiliary losses (shown separately), at:

<b>20,000 kVA</b>	Watts @ 55°C OA
<b>22,400 kVA</b>	Watts @ 65°C OA
<b>26,667 kVA</b>	Watts @ 55°C OA/FA
<b>29,867 kVA</b>	Watts @ 65°C OA/FA
<b>33,333 kVA</b>	Watts @ 55°C OA/FA/FA or FOA
<b>37,333 kVA</b>	Watts @ 65°C OA/FA/FA or FOA

Include losses at 1-raise and the average of 15-raise and 16-raise for LTC unit.

- c. Full-load regulation at one hundred percent (100%) and eighty percent (80%) power factor.
- d. Exciting current at rated frequency in percentage of the rated voltage and rated kVA.
- e. Cooling fans and pumps, H.P. rating, and voltage.
- f. Net weight of transformer, including insulating oil.
- g. Shipping weight of transformer.