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Solicitation Information
April 30, 2015

ADDENDUM # 2

RFP# 7549459

TITLE: Adams Library Generator and Electrical Service Improvement Project

Submission Deadline: Wednesday May 6, 2015 at 11:00 am (Local Time)

Notice To Vendors:

- Attached is additional information

**Tom Bovis
Interdepartmental Project Manager**

Interested parties should monitor this website, on a regular basis, for any additional information that may be posted.

SECTION 16460

DRY TYPE TRANSFORMERS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Dry type two winding transformers

1.2 REFERENCES

- A. ANSI/NEMA ST 20 - Dry Type Transformers for General Applications

1.3 SUBMITTALS

- A. Include outline and support point dimensions of enclosures and accessories, unit weight, voltage, KVA, impedance ratings and characteristics, loss data, efficiency at 25, 50, 75 and 100 percent rated load, sound level, tap configurations, insulation system type, and rated temperature rise.
- B. Nameplate data per NEMA ST20-3.26

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver to site and store in a warm, dry location with uniform temperature. Cover ventilating openings to keep out dust.
- B. Handle transformers using only lifting eyes and brackets provided for that purpose. Protect units against entrance of rain, sleet, or snow if handled in inclement weather.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Cutler-Hammer
- B. General Electric
- C. Square D
- D. Approved equal

2.2 DRY TYPE TWO WINDING TRANSFORMERS

- A. Dry Type Transformers: ANSI/NEMA ST 20; factory-assembled, air cooled dry type shielded transformers; ratings as shown on the Drawings
- B. Case temperature shall not exceed 65°C rise above a 30°C ambient at its warmest point.
- C. Winding Taps, four 2½% manually adjustable taps. Two below and two above rated voltage.

- D. Sound Levels: ANSI/NEMA ST 20
- E. All terminal compartments shall be located near the bottom of the transformers.
- F. Basic Impulse Level: 10 KV
- G. Ground core and coil assembly to enclosure by means of a visible flexible copper grounding strap.
- H. Mounting: Transformers shall be suitable for pad mounting in a weatherproof enclosure, as shown on the Drawings.
- I. Coil Conductors: Continuous aluminum windings with terminations brazed or welded.
- J. Enclosure: ANSI/NEMA ST 20; Type 3R weatherproof. Provide lifting eyes or brackets.
- K. Isolate core and coil from enclosure using vibration-absorbing mounts.
- L. Nameplate: Include transformer connection data and overload capacity based on rated allowable temperature rise.
- M. Finish with two coats of ANSI 61 gray.
- N. Terminal Connections: Copper bus or lead wire
- O. Ventilation openings shall be designed such that foreign objects inserted through these openings are deflected from energized parts.

PART 3 EXECUTION

3.1 INSTALLATION OF WALL MOUNTED TRANSFORMERS

- A. Set transformer plumb and level.
- B. Mount transformers on vibration isolating pads for isolating the transformer noise from the building.
- C. Name all wiring connections, including grounding.
- D. Install separate grounding electrode for bonding of neutral and all ground connections.
- E. Furnish and install supports for all transformers.

3.2 FIELD QUALITY CONTROL

- A. Check for damage and tight connections prior to energizing transformer.
- B. Measure primary and secondary voltages and make tap adjustments.
- C. Perform routine, design, prototype, and sound level tests for each unit rating.

END OF SECTION

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