

October 9, 2017

**BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY, FLORIDA**

**IFB #Y17-1141-OW
ELECTRICAL EQUIPMENT INSPECTION, TESTING AND DIAGNOSTIC SERVICES
TERM CONTRACT**

ADDENDUM NO. 2

This addendum is hereby incorporated into the bid documents of the solicitation referenced above. The following items are clarifications to the original document. Deletions are denoted by ~~strike through~~ and additions via underline.

1. Sealed bid offers will be accepted up to **2:00 PM (local time), ~~Tuesday, October 10, 2017.~~ October 17, 2017**, in the Procurement Division, Internal Operations Centre II, 400 E. South Street, 2nd Floor, Orlando, FL 32801.
2. **QUESTION:** Section 8, General Work Requirements, Item D, states "The electrical testing method may require either primary and/or secondary injection..." Secondary injection is supported by the requirements for the testing of Circuit Breakers, Air, Low Voltage Power (Work Specifications, K- page 50) but not Circuit Breakers, Air, Insulated Case/Molded Case (Work Specifications, J-page 48). Most if not all of the breakers which would benefit from secondary injection in the inventory are Insulated Case/Molded Case rather than Air, Low Voltage Power. Additionally, the secondary injection specification (K,2,h) on page 50 appears to be an "and" not an "and/or".

ANSWER: Both primary and secondary injection can be used. Primary injection testing is the preferred method, secondary injection testing should only be used in areas where utility shutdown is not possible.

Modification to add item j. to Page 48, Scope of Service, 10. Specification, J. Circuit Breakers, Air, Insulated Case/Molded-Case, 2. Electrical Tests.

2. Electrical Tests

- a. Perform resistance measurements through bolted connections with a low-resistance ohmmeter, if applicable.
- b. Perform insulation-resistance tests for one minute on each pole, phase-to-phase and phase-to-ground with the circuit breaker closed, and across each open pole. Apply voltage in accordance with manufacturer's published data.
- c. Perform a contact/pole-resistance test.
- d. Determine long-time pickup and delay by primary current injection.
- e. Determine short-time pickup and delay by primary current injection.
- f. Determine ground-fault pickup delay by primary current injection.
- g. Determine instantaneous pickup current by primary injection.

- h. Verify correct operation of auxiliary features such as trip and pickup indicators, zone interlocking, and trip unit battery condition.
- i. Verify correct operation of features such as electrical close and trip operation, trip-free, and anti-pump function. Reset all trip logs and indicators.
- j. Test functions of the trip unit by means of secondary injection. See Addendum 1.

3. **QUESTION:** Section 10: Work Specifications: Item K Circuit Breakers, Air, Low Voltage Power, sub Item 2 Electrical Tests sub item h. Test functions of the trip unit by means of secondary injection.

ANSWER: Primary injection testing is the preferred method, secondary injection testing should only be used in areas where utility shutdown is not possible.

4. **QUESTION:** Section 10: Work Specifications: Item 11. Reporting Requirements A. Infrared Thermographic Inspection Report: Identify equipment and include color photo and IR photo of all listed equipment to include date, time and IR thermographer regardless of if a problem was identified.

Standard practice for Infrared Thermographic Inspection photos is to submit color photo and IR photo in the report of only problem areas identified, may we just submit color photo and IR photo of only the problem areas identified?

If we have to submit color photo and IR photo of all equipment listed then the report time would more than double in time and cost to the county, in the bidding.

ANSWER: Modification to the Scope of Services, page 59.

11. REPORTING REQUIREMENTS

All inspection reports shall be presented on "CD" or comparable digital format as well as on 8-½ inch x 11 inch sheets and arranged in a 3-ring binder with tabs for division of each building and system and/or item of equipment therein.

A. Infrared Thermographic Inspection Report: The Contractor shall submit two (2) copies of the report to the County DMR within fourteen (14) calendar days following the completion of thermo-graphic inspections for all systems and items of equipment included in this contract for each performance period therein. Report shall:

- Identify equipment and include color photo and IR photo of all listed equipment to include date, time and IR thermographer regardless of if a problem was identified and on an as-needed basis.

5. **QUESTION:** If a bidder does not have any business operations in Orange County, can the bidder still provide a proposal?

ANSWER: There is no business location requirement in this solicitation.

6. **QUESTION:** A few months back we bid Y17-1064-TA. It was canceled. I have compared Y17-11410OW to Y17-1064-TA. The bid sheets are the same and as far as I can tell it appears the scopes are the same. Can you tell me if they are in fact exactly the same? I fear that I will not catch something that will affect my pricing.

ANSWER: The major change to the bid document is the qualification of bidders, however, there were other minor changes based on the feedback during the pre-bid meetings and walkthrough. It is highly recommended that the Bidder read the entire document. This is a new solicitation. Please refer to General Terms and Condition, 28. CLARIFICATIONS.

7. **QUESTION:** Bid sheet clarification request. Does the annual thermographic inspection of energized equipment includes (sic) only the equipment listed on the bid sheet or the attachment?

ANSWER: The Bidder shall provide one price per location for performing thermographic inspection to all electrical switchgear panels and sub-panels for that location.

Locations not outlined on the bid sheet that are in need of thermographic inspections shall be invoiced against the line item for thermographic inspection of energized equipment under Lot 7- Additional Services.

Additional Information:

Link to available one-line diagrams. No other one-line diagrams are available.

<ftp://ftp.ocfl.net/divisions/Purchasing/pub/Current%20Bids%20and%20RFPs%20-%20Large%20Files/Y17-1141-OW/>

ACKNOWLEDGEMENT OF ADDENDA

a. The bidder shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on the addendum. Either form of acknowledgement must be completed and returned no later than the date and time for receipt of the bid.

b. Receipt acknowledged by:

Authorized Signer

Date Signed

Title

Name of Bidder
IFB #Y17-1141-OW
Addendum No. 2
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