



“RE-BUILDING THE CITY’S WATER SYSTEMS FOR THE 21<sup>ST</sup> CENTURY”

# Sewerage & Water Board OF NEW ORLEANS

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July 15, 2022

## Addendum No. 4

Your reference is directed to **Contract 1427 – Packaged Auxiliary Electrical Equipment Procurement** for the Sewerage and Water Board of New Orleans which is scheduled to open at **11:30 a.m. Local time on August 15, 2022.**

This Addendum consists of 1 Pages and 1 Attachment(s).

This addendum provides for the following:

A1.1. This Addendum includes the following attachments (not included in the page count):

- a. Attachment 1 – C1427 Questions and Responses During Bidding – Version 0, Dated July 14, 2022 [Questions 1-13].

*The changes, additions, and/or deletions included herein are hereby made part of the Contract Documents for the CP-1427 Packaged Auxiliary Electrical Equipment Procurement project, as fully and completely as if the same were set forth therein. The bidder shall acknowledge receipt thereof on the Form of Proposal.*

\*\*\* END OF ADDENDUM \*\*\*

# C1427 – Packaged Auxiliary Electrical Equipment

## **Questions and Responses During Bidding**

Version 0, Dated: July 14, 2022 [Questions 1-13]

**BIDDER QUESTION 1:** Reference Section 26 00 10 (addenda #1), section 1.01.D thru I & K.

**RESPONSE 1:** Please note the following CP-1427 WPCAUX EPS PDC Equipment BID POSTING clarification. In an earlier Scope of Supply, there was a requirement for Phase 1 “temporary electrical equipment” in a single Power Distribution Center (PDC) enclosure comingled with “permanent electrical equipment”. Instead, there are now TWO (2) PDC enclosures (and requisite switchgear, panelboards, etc.) associated with the WPCAUX Electrical Power System (EPS) functional area.

**BIDDER QUESTION 1A:** Can you please help identify or clarify the Phase 1 ‘permanent’ switchgear/equipment and Phase 1 ‘temporary/interim’ switchgear/equipment?

**RESPONSE 1A:** Phase 1 ‘permanent’ switchgear/equipment will be housed in PDC #1 in the WPCAUX subplot of the West Power Complex (WPC). Phase 1 ‘temporary/interim’ switchgear/equipment will be housed in PDC #2 in the WPCSF sublot of the WPC. The DATASHEETS and/or DRAWINGS provided with the bid documents identify which PDC the equipment will be located in.

**BIDDER QUESTION 1B:** Paragraph K has the following list of equipment but does not designate if the equipment is permanent or temporary/interim.

**RESPONSE 1B:** The ‘permanent’ and ‘temporary/interim’ designation is related to an interim vs final configuration of the equipment within the WPCAUX and WPCPDA development. Generally, the equipment identified as “permanent” will be housed in PDC #1, and the equipment identified as “temporary/interim” will be housed in PDC #2. The equipment in PDC #2 are WPCAUX-0-EMV60-SG-201, WPCAUX-0-ELP60-PP-502, and WPCAUX-0-ELP60-XFMR-502. All other electrical equipment is in PDC #1.

**BIDDER QUESTION 2:** Section 01 11 00.1 Supplement 1-1 to the Project Summary of Work (not sure if this document is still valid) also list equipment to be provided under certain S&WB contracts.

**RESPONSE 2:** Supplement 1-1 is intended to be a guide and would need to be edited depending upon different stages of development in the project. It is NOT contractually binding.

**BIDDER QUESTION 3:** For 24kV switchgear it only has a ‘temporary’ line up for contract 1427. Is that correct? So there is no permanent 24kV switchgear in contract 1427.

**RESPONSE 3:** The 24kV switchgear included in the 1427 scope of supply, is included in PDC #2, which is categorized as temporary/interim.

**BIDDER QUESTION 4:** Is the 6.6kV Switchgear requirement correct? Do not see any 6.6kV specification/data sheets in the bid package and nothing on the overall one line drawing in Addendum #1.

**RESPONSE 4:** No 6.6kV switchgear is included in the CP-1427 bid package scope of supply.

**BIDDER QUESTION 5:** Also, according to the overall one line in Addendum #1 the transformers highlighted above are to be furnished under contract 1416 not 1427. Did not see any applicable specs in contract 1427 so wanted to confirm that these transformers are not required as part of the 1427 bid.

**RESPONSE 5:** Yes, correct. Section 01 11 00.1, Supplement 1-1, is intended to be a guide, where transformers WPCAUX-0-EMV60-XFMR-301A, WPCAUX-0-EMV60-XFMR-301B, WPCAUX-0-ELV60-XFMR-401A, WPCAUX-0-ELV60-XFMR-401B are NOT in the CP-1427 Scope of Supply.

**BIDDER QUESTION 6:** The contract drawings for 24kV switchgear have a tag # WPCAUX-0-EMV60-SG-201[TMP] are we to assume this is the only temporary gear and thus would be installed in PDC#2? Is there any permanent 24kV switchgear? If so, is there a drawing for the temporary 24kV switchgear?

**RESPONSE 6:** WPCAUX-0-EMV60-SG-201 will be installed in PDC #2. No 24kV switchgear will be installed in PDC #1. Please refer to the Addendum #1 drawing attachment WPCAUX-0-EMV60-SG-201.rA.20220613.0639.

**BIDDER QUESTION 7:** The contract drawing (sketch) 1427-WPCAUX-E-SK-03.02 provided with addendum #1 shows a 24kV switchgear line up with the WPCAUX-0-EMV60-SG-201[TMP] tag. There are also 5 locations where they show (Future) WPCPDA 24kV?

**RESPONSE 7:** The WPCPDA functional area is NOT within this CP-1427 Scope of Supply.

**BIDDER QUESTION 8:** Is it correct the temporary/interim 24kV switchgear will consist of the (2) main 3000A breakers and (6) feeder 1200A breakers per the one line for WPCAUX-0-EMV60-SG-201[TMP]?

**RESPONSE 8:** Please refer to the Addendum #1 drawing attachment WPCAUX-0-EMV60-SG-201.rA.20220613.0639, where two 3000A breakers and six 1200A breakers are included. Also refer to Addendum #1 datasheet attachment 26.13.00DS\_CP-1427\_Medium Voltage Metal-Clad Switchgear Data Sheets, which indicates the same.

**BIDDER QUESTION 9:** And the permanent 24kV switchgear will be the same as WPCAUX-0-EMV60SG-201[TMP] with the addition of the (5) breakers to feed future loads as shown on the overall one line sketch? So a total of (2) Main Breakers and (11) feeder breakers?

**RESPONSE 9:** The WPCPDA 24kV switchgear is not within the CP-1427 Scope of Supply.

**BIDDER QUESTION 10:** Can you confirm there is no temporary/interim 4160V switchgear, 480V switchgear or 480V MCC?

**RESPONSE 10:** The 1427 Contract Scope of Supply does not include 4160V switchgear, 480V switchgear or 480V MCC in the temporary/interim PDC (PDC #2). Please review the Addendum #1 attachments for equipment that will be included in PDC #1.

**BIDDER QUESTION 11:** The specifications include section 26 33 55 for a DC/AC UPS System. The specifications/data sheet call for a 30kVA output with a 30 minute back up time. Is it acceptable to consider a DC battery system w/ 2 input chargers and a DC battery for control power for the switchgear systems.

**RESPONSE 11:** No, a DC battery system w/ 2 input chargers and a DC battery for control power for the switchgear systems is not acceptable for this application. Please follow the specification.

**BIDDER QUESTION 12:** A separate smaller AC in / AC Out UPS type system for power to AC loads that require battery back up?

**RESPONSE 12:** No, a separate smaller AC in / AC Out UPS type system for power to AC loads that require battery back up is not acceptable for this application. Please follow the specification.

**BIDDER QUESTION 13:** The new data sheets for 4160V switchgear WPCAUX-0-EMV60-SG-301A&B contained in Addendum 1 change the short-circuit interrupting rating of all breakers from 40kAIC to 65kAIC. To our knowledge, there are no breakers manufactured with that non-standard rating. Should this be the more standard rating of 63kAIC?

**RESPONSE 13:**

The clarification of 63kAIC is acceptable, as opposed to 65kAIC symmetrical withstand capacity for the 60 Hz MV breakers @ 4.16kV. The appropriate standard(s) that address this are found in the following:

[1] IEEE C37.04-2018, Section 6.3 (Preferred ratings for class S1 circuit breakers), Table 8 (Preferred ratings for class S1 circuit breakers for cable systems rated below 100kV), Line 4 (Column 1 = Rated Maximum Voltage of 4.76kV and Column 3 = Rated Short-Circuit and Short-Time Current of 63kA), while referencing Section 6.3.1 for table content explanation.

and

IEEE C37.06-2009, Section 5 (Preferred ratings for class S1 circuit breakers for cable systems), Table 1 (Preferred ratings for class S1 circuit breakers for cable systems rated below 100kV), Line 4 (Column 1 = Rated Maximum Voltage of 4.76kV and Column 3 = Rated Short-Circuit and Short-Time Current of 63kA), while referencing Section 5.1 for table content explanation.

[2] LV circuit breakers can have a 65kA symmetrical withstand capacity, where MV circuit breakers top out at 63kA symmetrical withstand per the aforementioned standards.

[3] MV breaker short-circuit "peak" values (i.e., "closing" and "latching" values) are:

$I_{sc(p)} = 2.6 \times I_s @ 60\text{Hz}$ , with a 45 ms DC time constant (and NO DC "offset" or DC component) where  $I_{sc(p)}$  = peak short-circuit current and  $I_s$  = rms rated symmetrical fault current level measured in kA.

However, if expressed in terms of root mean square (rms) TOTAL short-circuit current (i.e.,  $I_{sc(t)}$ ), where this is NOT the rms rated symmetrical value,  $I_s$ ), then the equivalent value is 1.55 times the rated short-circuit value @ 60Hz (i.e.,  $I_{sc(t)}$  and NOT  $I_{sc(p)}$ , nor  $I_s$ ), per the aforementioned tables' Column 3 referenced in Item [1] standards above.