



Procurement Department Bid Section

October 8, 2024

ADDENDUM NUMBER: TWO (2)

TITLE: 1411836846 (RFP) N01 Isolated Phase Bus System Overhaul

PROPOSAL DUE DATE: ~~October 08, 2024~~, October 15, 2024

TIME OF RECEIPT: 12:00 PM EST

THIS ADDENDUM IS FOR THE PURPOSE OF MAKING THE FOLLOWING CHANGES OR CLARIFICATIONS:

1. **Change:** The bid due date has been extended to 10/15/2024.

2. **Question:** For the Isolated Support Feet megger readings, it states replacing the isolation tubes and plates with G10 or G11, is that if we have to remove any ? Or do you want all of these Replaced, and is this only on the inside again? Insulation will be replaced on all three phases if we find an outlier which will be determined when we gather the data.

Answer: The G10 or G11 sleeve for the bolt, washers, and flat 4" x 4" plate that insulates the enclosure from the structure will be replaced at every location that is deemed to be too low in terms of MOhm or is an outlier, which can only be determined during the outage.

3. **Question:** The Insulators of this system both 12,000A & 1,200A will not be possible to source, we have found that if one needs replaced, we have been installing our insulator base and a 110 KV BIL Insulator in its place, this would be on an as found basis.

Answer: We would want to order these preemptively according to the scope (1.2) of work and get pricing for them on the extra work sheet.

4. **Question:** Replacing a flexible shunt would require dimensions, do you have a sketch?

Answer: We only have the DWGs that are available in Zycus. I would assume that the links for the gen and for the GSU's & Station Service XFMR, are very common. I would assume 12 flex links capable of collectively carrying 12,000A. The flex links for the 1200A bus are shown in the SOW.

5. **Question:** Replacing a 12,000A or a 1,200A Welded Expansion Joint would require dimensions, do you have a sketch?

Answer: We have the DWG's in Zycus and the photo in the SOW. These joints are roughly 20" in length and roughly 10" in diameter.

6. **Clarification:** Section 5 "Grounding Connections" will be excluded from the scope of work. This can be found on Page 12 in the technical specifications.

5. Grounding Connections – All bare 400 MCM shall be replaced with 500MCM and cad welded to existing building steel and to the existing grounds Four (4) feet above grade. This will require scaffolding and in some locations, a harness where the scaffolding cannot be “green tagged”. There is approximately 350’ that shall be replaced. Tap cons with stainless steel straps shall be used every 18 to 24 inches. There are existing studs which There are 8 locations that require a cad weld 500MCM to 500MCM parallel, and 6 locations that require a cad weld to building steel. The bare copper ~ 15’ that is bonded to the NGR shall also be replaced. These cables can be measured with a caliper during the walk down to verify sizing.



View of 500MCM on the Mezzanine.

7. Clarification: Page 19 under “extra work”, Number 8 should be 1,200 instead of 12,000

Extra work – It is anticipated that repair work will be necessary. The contractor shall provide unit costs for each of the following items:

1. Inspect additional electrical bus connections (including disassembly and re-assembly).
2. Clean electrical connections: 4 inch by 4 inch times 3 – (48 square inches)
3. Copper/Silver-plating of aluminum connections: 4 inch by 4 inch X 6 – (96 square inches)
4. Replace hardware: twelve bolts, twenty-four Belleville's, twenty-four flats and twelve nuts 1/2" X 4" (316 Stainless Steel, not 304). **Bottom flat must be larger diameter than Belleville such that, when compressed, the Belleville does not overlap edge of flat washer.**
5. Replace cracked or damaged insulator for 12,000A bus.
6. Replace insulator hardware including saddle for 12,000A bus.
7. Replace cracked or damaged insulator for 1,200A bus.
8. Replace insulator hardware including saddle for 12,000A bus.
9. Replace clamshell cover clamps.
10. Replace 5/8 Structure Hardware along with G11 Insulation, washers, and Sleeves for insulative Bolting for structural members. One set will be defined as enough hardware for all three phases in one location. Twelve Bolts, twelve nuts, six pieces of 4 by 4 G11 insulation, twelve washers, twelve G11 sleeves for bolting, and twelve G11 washers.
11. Replace 1,000A Flexible Braided Shunts.
12. Cut existing 12,000A expansion joint and replace by aluminum welding.
13. Cut existing 1,000A expansion joint and replace by aluminum welding.

8. Clarification: For bidding purposes, the 4” below should be 4.5” due to unknown hardware size. This is on page 10 in “4. Flexible shunt braids”.

4. Flexible shunts braids - All of the flexible shunts (flex braids) internal to the IPB shall be indexed per the Numbering Convention for Hardware such that, they could be re-installed in the exact location and orientation that they were removed from. This is to make sure that the face to face connections have the same amount of contact if the original links are put back in place. The flex links shall be disconnected and visually inspected for discoloration, broken leaf's, pits and or hot spots A thin layer of Mobil 28 shall be applied to each electrical connection and then wiped off so that there is barely enough to see. This should guarantee that no dripping occurs. All hardware is to be replaced with 316 stainless steel, including stainless steel conical washers on top of a flat that is 20% larger than the conical. For bidding purposes, it will be assumed that 1/2 inch hardware is 4" in length. When the flex braids are removed it is critical that they are stored in a clean environment and kept out of the weather and away from any foreign material. An acceptable method would be plastic storage bins. If the flex

9. Addition: JEA adds “1411836846 Addendum 1 - Attachment A - Additional Drawings (N01 IPB)”

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE PROPOSAL FORM.