



METROPOLITAN WASHINGTON AIRPORTS AUTHORITY

IFB-19-10221 Replace Eight (8) Condenser Pumps at the Utility Building IAD

May 15, 2019

Questions and Answers

Notice: Questions may have been edited for clarity and relevance.

- 1. Question:** Regarding 230900 2.2.D.3, please confirm no hardwire interface for safeties are required for this project, or identify the required safeties.

Answer: No hardwire safeties are required.
- 2. Question:** Regarding 230900 2.3.B and PXCM technology and Upgrade to existing MBC's, existing CW and CT controllers are MBC type. Please confirm which MBC controllers are to be upgraded as part of this project, or should existing MBC controllers be used for the P1 communication.

Answer: Use the existing MBC controllers.
- 3. Question:** Regarding existing CW pump start-stop control points from MBC to starters, please confirm that start stop point wiring can be removed from MBC point module, wiring pulled up into the adjacent trough and labelled, disconnected from the starter, and that the wiring from the starter to the MBC trough abandoned in place.

Answer: Wiring from the starter to the MBC trough shall be removed.
- 4. Question:** Please confirm that work in the utility building can occur during normal working hours.

Answer: Yes.
- 5. Question:** Regarding ME03.001 Note 4 new butterfly valve, please confirm valve is a manual valve and does not require a controlled actuator or BAS points.

Answer: It is a manual valve.
- 6. Question:** Regarding ME04: please confirm field instrumentation for sequences e.g. CV, FT, TT etc. are existing to be re-used for new sequences.

Answer: They are existing to be re-used.
- 7. Question:** Regarding ME04, please confirm that labor and material for troubleshooting or remediation of existing control system are not required

Answer: The controls have to be able to perform the sequences in the documents. If existing controls issues exist to prevent the sequence they will need to be addressed.

8. **Question:** Is this a Buy America project?
Answer: No.
9. **Question:** Regarding 230900 2.2.D.1, please confirm that existing MBC controllers on BAS/EMCS are to be used to extend existing P1 communication and controller upgrade is not required.
Answer: Use the existing MBC controllers.
10. **Question:** Was site walk attendance mandatory for this?
Answer: No.
11. **Question:** Re: ME04: Please confirm that programming and check-out is only required for the italic underlined sequences and the remainder of the Sequences are for information
Answer: The italic and underlined are the changes to the existing sequences. The remainder is the existing sequence for the operation and is for information.
12. **Question:** Per Contract Requirements this project is spread over four (4) years, please advise if the General Contractor can provide the Payment and Performance Bond for each phase that is being performed in a twelve (12) month period to save the bonding capacity for the entire job from being fully tied up for the entire period. Our Surety Company will not provide a payment and performance bond for a phased project which is being performed over a four year capacity. Contractor hereby requests to change the language in the contract documents such that the Contractor can provide a Payment and Performance Bond per phase so that a Small Business can provide a competitive bid for the Using Agency.
Answer: Yes, Performance and Payment Bonds may be provided for each 12 month phase of the project. Amendment No. 1 was issued to address this.
13. **Question:** 23 21 23-2, D, 1: MWAA is requesting class 250 pound flanges. Flowserve's standard connections on their 300LNN-575 pump are ANSI 150, flat face. Class 250 can be supplied. Please clarify.
Answer: ANSI 150 is acceptable.
14. **Question:** 23 21 23-2, D, 3: MWAA is requesting that the pump be fitted with a stainless steel shaft. Flowserve's standard shaft material for their 300LNN-575 is carbon steel. A bronze shaft sleeve / bronze shaft nut will cover the carbon steel shaft at the mechanical seal positions and in to the open area between seal gland and the bearing housings. Carbon steel is preferred. Stainless steel is available as an alternate material. Please clarify.
Answer: Carbon steel is acceptable.
15. **Question:** 23 21 23-2, D, 4 &5: MWAA is specifying two shaft sealing systems for the condenser water pumps (mechanical seals & mechanical packing). Is one preferred over the other? Note: mechanical packing will leak/drip process fluid to atmosphere – by design. Process fluid will collect in the pumps cast iron bearing support housing. Both bearing support housing drain ports will need to be piped to a floor drain. Please clarify which sealing system is preferred.
Answer: Provide mechanical seals.

16. **Question:** 23 21 23, H Clarification on the required motor, premium efficient rated for VFD service, 10 to 1 turndown, with aegis ring installed.
Answer: Provide premium efficient motor rated for VFD service, 10 to 1 turndown, with aegis ring installed.
17. **Question:** 23 21 23, H Clarification on the motor to motor riser adjustment. Are jack bolts required? Please clarify.
Answer: Provide jack bolts.
18. **Question:** Could you provide Name and Number for Square D Representative that performed the survey.
Answer: The information was obtained from Kevin Dubina at Square D factory via local consulting engineering specialist, who has since moved to a different location. The new consulting engineering specialist is Ms. Lisa Finger 410-559-2914.
19. **Question:** Are there junction boxes between existing disconnect switch and starter at MCC Panel?
Answer: There are existing junction boxes.
20. **Question:** Does MWAA have all the replacement parts including the starter and all hardware?
Answer: The existing starters are being removed, not replaced. MWAA will provide breaker only, as indicated on the contract drawings. All required hardware shall provided by contractor.
21. **Question:** What are the working hours for this project?
Answer: Contractor can work any time so long as the work does not affect normal operation of the plant.
22. **Question:** Sheet EL06.001 drawing Note 1 states “Disconnect and remove RVAT starter components from Starter sections of MCC serving pumps CWP-1 thru CWP-8. Work shall be performed by Square D field services personnel.”
a. Who will hire Square D for these services?
Answer: Contractor shall hire the services of Square D field services personnel.
23. **Question:** Sheet EL06.101 drawing note 7 states “Disconnect and remove Square D Breaker MAP36500. Conductors on line side of breaker shall remain.”
a. Will Square D field services personnel be required to perform this service similarly as stated in Note 1 on EL06.001?
Answer: Work shall be performed by Square D field services personnel.
b. If so, who will hire Square D for these services?
Answer: Contractor shall hire the services of Square D field services personnel.
24. **Question:** Sheet EL06.002 drawing note 2 states “Install Square D breaker MHL36500 in same place as the breaker being removed. MWAA to furnish replacement breaker. Work shall be performed by Square D field services personnel. Breaker shall be field tested.”

a. Who will hire Square D for these services?

Answer: Contractor shall hire the services of Square D field services personnel.

b. Can breaker be sent out for testing instead of field testing on site?

Answer: No, breakers shall be tested on site.

c. What are the test requirements for field testing?

Answer: Testing requirements are indicated in specification section 262419.

d. Who will be performing field testing of breaker?

Answer: Testing shall be performed by a qualified independent testing agency. See specification section 262419 for requirements.

25. **Question:** Is Siemens the proprietary controls provider? If so please provide their contact information.

Answer: Siemens is the proprietary BMS control provider, George Coyle 301-837-2574.

26. **Question:** Due to potential changes made to the scope of work from the RFI answers it is recommended a 2nd site visit be made available. Will this be considered?

Answer: A 2nd site visit can be made available if there is any scope changes.

27. **Question:** On Drawing EL02.001 It says on note 2 leave existing conduit in place for reuse. On drawing EL06.002 note 6 says from new VFD to pull 2 sets of #250 KCMIL wire and 1 #2 in existing conduit where possible. Could you please clarify the designer's intent because it is not a common trade practice to pull paralleled conductors of that size in one conduit. Typically paralleled conductors are pulled in different conduits. One conduit for one set of the 250 KCMIL (3 in each conduit not all 6). The existing feeder cable from the MCC is 500 KCMIL cable which is rated for 380 amps, the new pump amp rating is 305. Would the Designer consider leaving the existing cable in place as it is adequate in size and extend to new location of the VFD? This would result in a tremendous cost savings to MWA on this project.

Answer: The feeder from existing MCC to new VFD has to be rated to carry the line side current of the VFD, which is higher than the ampacity of the existing 500KCMIL cable. Hence the cables have to be replaced as indicated on the contract drawings. Running two sets of conductors in the same pipe does not violate NEC fill ratio requirements.

28. **Question:** Please consider adding the following Size Standards:

NAICS Code Type Of Work / Service LDBE Size Standard
238190 Welding, On-site, Contractors \$15.0 Million
236220 Commercial Building Maintenance/Repair (related Structure) \$36.5 Million

Answer: Amendment No. 2 added the NAICS Code 238190 Welding, On-Site, Contractors \$15 Million.

29. **Question:** In the solicitation section v-6 #20, it says for projects of comparable scope that have been completed during the 5 yrs. preceding this offer. Is the for supposed to be 4 or is a single project acceptable?

Answer: Section V-6, paragraph 20 Line Item "I" is deleted.