

April 5, 2024

**POLK COUNTY, A POLITICAL SUBDIVISION OF
THE STATE OF FLORIDA
ADDENDUM # 3
BID 24-172, MOTOR CONTROL CENTERS (MCC-1 & MCC-2) EQUIPMENT
AND SERVICES**

This addendum is issued to clarify, add to, revise and/or delete items of the Bid Document for this work. This Addendum is a part of the Bid Document and acknowledgment of its receipt shall be noted on the Addendum.

Contained within this addendum: Additions, Revisions, Questions and Answers received.

Ari Goldstein

Ari Goldstein

Senior Procurement Analyst
Procurement Division

This Addendum sheet should be signed and submitted with your bid submittal. This is the only acknowledgment required.

Signature

Printed Name:

Title:

Company:

BID 24-172, MOTOR CONTROL CENTERS (MCC-1 & MCC-2) EQUIPMENT AND SERVICES

Addendum # 3

ADDITIONS

1. **ADD IN ITS ENTIRETY**: Qualifications, Item #3: Bidder shall be an authorized Square D distributor. Bidder should submit proof of authorization with their bid submittal or must be provided within three days of request.
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REVISIONS

SPECIFICATIONS

1. Specification Section 16469 Variable Frequency Drives, Paragraph 2.1.A.7.b.:
 - a. **DELETE** Paragraph 2.1.A.7.b. in its entirety.
 - b. **REPLACE WITH** “b. Line reactors and other required devices shall be provided for individual VFD’s where indicated on the Drawings and/or in the VFD schedule.”
2. Specification Section 16469 Variable Frequency Drives, Paragraph 2.1.A.9.a.:
 - a. **DELETE** Paragraph 2.1.A.9.a. in its entirety.
 - b. **REPLACE WITH** “RFI/EMI filters shall be provided by the supplier and shall be rated for, and compatible with each VFD. They shall function as a complete system. Additional line reactors beyond those shown on the drawings may be required to comply with the above parameters.”
3. Specification Section 16469 Variable Frequency Drives, Paragraph 2.1.A.9.b.:
 - a. **DELETE** Paragraph 2.1.A.9.b. in its entirety.
 - b. **REPLACE WITH** “5% line reactors shall be mounted inside the respective VFD enclosure reactors and shall be TCI Harmonic Guard or equivalent.”
4. Specification Section 16469 Variable Frequency Drives, Paragraph 2.1.A.31.b.:
 - a. **DELETE** Paragraph 2.1.A.31.b. in its entirety.
 - b. **REPLACE WITH** “b. Line reactor 5%, matrix filter, RFI/EMI filter, and/or dv/dt filter as specified and as shown. Provide a matrix harmonic filter switching contactor for capacitor portion of the filter as applicable and meets the requirements of IEEE 519.”
5. Specification Section 16469 Variable Frequency Drives, Paragraph 2.2 Variable Frequency Drive Schedule, Note 1:
 - a. **DELETE** Variable Frequency Drive Schedule, Note 1. in its entirety.
 - b. **REPLACE WITH** “1. The cable size for the application is oversized for the size motor due to the distance to account for voltage drop. The VFD Supplier shall review the capacitance

effect of the cable from oversized feeders when sizing the dv/dt long lead filter and VFD drive. Provide calculations for sizing the dv/dt filter so the system will operate properly.”

6. Specification Section 16443 Motor Control Centers, Paragraph 2.1.A.3.a Bus Arrangement:
 - a. **DELETE** “or 2500”

DRAWINGS

1. Drawing Sheet E-4-MCC, MOTOR CONTROL CENTER 80-MCC-1 SINGLE LINE DIAGRAM – MODIFICATIONS.
The VFD descriptions for each VFD on MCC-1:
DELETE “VFD WITH ACTIVE INPUT FILTER AND SINE WAVE OUTPUT FILTER”
REPLACE WITH “VFD WITH INPUT REACTOR AND DV/DT OUTPUT FILTER.” (changes 12 places on MCC-1)
2. Drawing Sheet E-5-MCC, MOTOR CONTROL CENTER 80-MCC-2 SINGLE LINE DIAGRAM – MODIFICATIONS.
The VFD descriptions for each VFD on MCC-2:
DELETE “VFD WITH ACTIVE INPUT FILTER AND SINE WAVE OUTPUT FILTER”
REPLACE WITH “VFD WITH INPUT REACTOR AND DV/DT OUTPUT FILTER.” (changes 11 places on MCC-2)
3. Drawing Sheet E-4-MCC, MOTOR CONTROL CENTER 80-MCC-1 SINGLE LINE DIAGRAM – MODIFICATIONS.
DELETE The “main breaker with a 3000AF and 2500 AT”.
REPLACE WITH “a main breaker with a 2000AF and a 2000AT”.
4. Drawing Sheet E-4-MCC, MOTOR CONTROL CENTER 80-MCC-1 SINGLE LINE DIAGRAM – MODIFICATIONS.
DELETE “2500A BUS, 480V, 3PHASE, 4 WIRE 65KAIC”.
REPLACE WITH “2000A BUS, 480V, 3PHASE, 4 WIRE 65KAIC”.
5. Drawing Sheet E-4-MCC, MOTOR CONTROL CENTER 80-MCC-1 SINGLE LINE DIAGRAM – MODIFICATIONS.
DELETE “2500A BUS, 480V, 3PHASE, 4 WIRE 65KAIC”.
REPLACE WITH “2000A BUS, 480V, 3PHASE, 4 WIRE 65KAIC”.
6. Drawing Sheet E-4-MCC, MOTOR CONTROL CENTER 80-MCC-1 SINGLE LINE DIAGRAM – MODIFICATIONS.
DELETE “The 1200AF/1200AT Breaker for the FUTURE FEEDER TO EQUIPMENT”.
DELETE “The 600AF/600AT Breaker for the 100-P-9 (FUTURE)”.

7. Drawing Sheet E-5-MCC, MOTOR CONTROL CENTER 80-MCC-1 SINGLE LINE DIAGRAM – MODIFICATIONS.

DELETE “The 600AF/600AT Breaker for the 100-P-8 REUSE HIGH SERVICE PUMP (FUTURE)”.

DELETE “The 150AF/75AT Breaker for the 50-P-4 RAS/WAS PS #1 PUMP (FUTURE)”.

DELETE “The 1200AF/1200AT Breaker for the FUTURE FEEDER TO FUTURE EQUIPMENT”.

QUESTIONS AND ANSWERS

Question 1: Due to the existing footprint and space limitations, it will not be possible to provide active front end drives for 50HP and above or Accusine for drives below 50HP. In order to incorporate these features into the design, the footprint of these MCC’s would need to increase substantially. Can you please confirm these features are not required based on this situation?

16469, 2.1,

9 Filtering

a. The drives for 50 HP and above shall be an active front end, low harmonic VFD type as required for this installation. This shall be Altivar Series VFDs, one of the lowest harmonics and highest efficiency and harmonic mitigation.

b. Smaller drives for below 50 HP shall use 5% active input filters shall be mounted inside the respective VFD enclosure filters and shall be AccuSine or equivalent.

Answer 1: This addendum includes revisions allowing passive drives. Please refer to the revisions above for specific changes to some Specifications and Drawings.

Question 2: In regards to the aforementioned project, please confirm the intent of this project is for an Electrical supply house to submit the bid, and not an EC. My understanding is that the construction portion of this project will be bid out in the future, and that the handling, offloading, and installation of the Electrical Apparatus will be covered during that portion, and that this bid is solely for a supply house to supply the apparatus and have Square D start-up services included.

Answer 2: The intent of this bid is a vendor package to obtain equipment and testing services only. The procurement and testing of the MCC equipment are to be completed by a Square D authorized representative (See Additions, Item #1 above). Handling, offloading, and installation of equipment is not included under this bid. A separate contractor has been procured by the County for the installation of this equipment.

Question 3: Regarding Bid #24-172 for the MCCs - we are an EC & NETA testing company so we are interested in this project, however I'm a bit confused on whether field installation & testing is included in this bid or if a separate bid will be released for that work? Being that we are not a Square D distributor, we wouldn't be too competitive on supplying the MCCs, but would love the opportunity to quote the installation & testing.

Answer 3: Refer to Question and Answer #2 above.