



UNIVERSITY OF KENTUCKY Purchasing Division

INVITATION FOR BIDS

CCK-2503-21

Med Center H&C Plant Transformer and Control
Panel Replacement BP-01 (Controls)

ADDENDUM # 3

09/23/2020

ATTENTION: This is not an order. Read all instructions, terms and conditions carefully.

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY: 09/30/2020 @ 3:00 P.M. LEXINGTON, KY TIME

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

Please see the following information.

Bid Package 1

All conduit and cabling required to install the controls in Bid Package 1 shall be supplied as a part of Bid Package 1. This includes all power wiring required for the control devices.

Variable Frequency Controllers shall be provided as a part of this Bid Package. They shall be installed by Bid Package 2. Control connections and programming are a part of this bid package.

Bid Package 2

The scope of the contract includes the replacement of Switchboard P. This was incorrectly stated at the pre-bid.

The Variable Frequency Drives will be supplied as a part of Bid Package 1 and installed by this contractor.

Refer to SECTION 26 1219 - PAD-MOUNTED, LIQUID-FILLED, MEDIUM-VOLTAGE TRANSFORMERS – Revise the specification to require 600 amp two piece busing and bushing wells rather than the 200 amp specified.

Refer to SECTION 26 0513 - MEDIUM-VOLTAGE CABLES – Revise the specification to require 600 amp non-load break elbows rather than the 200 amp load break elbows specified.

OFFICIAL APPROVAL
UNIVERSITY OF KENTUCKY

SIGNATURE

Kenneth Scott

Contracting Officer / (859) 257-9102

Typed or Printed Name

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UNIVERSITY OF KENTUCKY

Purchasing Division

Written Questions and Answers

CCK-2503-21

Medical Center H&C Plant Transformer and Control Panel Replacement
BP-1 (Controls)

No.	Question	Answer
1.	<p>DRAWING E3 Are all the line and load feeds to be reconnected into the new switchboards, distribution panelboards and VFDs and their associated equipment names shown on the one-line drawings? If not, can you please revise to show each load?</p>	<p>Refer to the schedules for the list of loads.</p>
2.	<p>Can someone update the one-line drawing to indicate the appropriate feeder schedule designation and/or provide the “as-built” wire and conduit size for each of the following items?</p> <ul style="list-style-type: none"> a. SWBD P, line side feeder . Shows coded note 3000, but this does not appear on the feeder schedule. <ul style="list-style-type: none"> i. CHWP-3. No feeder size designated. ii. CH6. No feeder size designated. iii. Panel schedule, circuit #1 “<i>existing future chiller</i>”, is there any scope of work for this item? iv. Panel schedule, circuit #5, “<i>temp feed for air compressor</i>”. Is this an existing feed, as it doesn’t show on the old or new one-line drawing? Will it need to be disconnected from the old gear and re-installed in the new gear? Pipe and wire size for this feeder? v. Panel schedule, circuit #6, “<i>temp feed for office panel</i>”. Is this an existing feed, as it doesn’t show on the old or new one-line drawing? Will it need to be disconnected from the old gear and re-installed in the new gear? Pipe and wire size for this feeder? 	<p>Refer to the panel schedules for the list of loads along with the amp rating of the protective device. The feeder sizes are listed in the “Feeder and Branch Circuit Schedule” on drawing E3 for bid purposes.</p> <p>Existing Future Chiller Breaker is a spare.</p>

- b. **MCC8**, line side. No feeder size designated
- i. **CWP#6**. Shown on the panel schedule but not provision in the one line of the new gear.
 - ii. Ckt #2 on panel schedule calls out a *“condensate water pump, (100amp)”*. Is this **CWP-9** shown on the one-line drawing? If so, the panel schedule is calling for a 125amp trip rating but the one-line is only calling for a 100AF/90AT. Please confirm the correct details.
 - iii. Ckt#3 on the panel schedule calls out *“existing C.W.P. #6 (60HP)”*, and shows a 100A trip rating. This item does not appear on the 1-line drawings and there is no spare provisions in MCC8 for this feed.
 - iv. The one-line drawing shows **CHWP-2** but this does not appear on the panel schedule.
 - v. **TP1, TP2, TP3**. No feeder size designated.
 - vi. **CHWP PU8**. No feeder size designated.
 - vii. **CWP-2**. No feeder size designated.
 - viii. **PANEL-A**. No feeder size designated.
 - ix. **MCC-9A**. No feeder size designated.
 - x. **CWP-9**. No feeder size designated.
 - xi. **CWP-2**. No feeder size designated.
 - xii. **OIL PUMP #2**. No feeder size designated.

c. **DP7**

- i. **CT FAN 3**. No feeder size designated.
- ii. **CT FAN4**. No feeder size designated.
- iii. **CHWP-1**. No feeder size designated.

d. **DP6**

- i. **CT FAN**. No feeder size designated.
- ii. **CT FAN X**. No feeder size designated.
- iii. **SHWP-2X**. No feeder size designated.

3.	TX (CH6). Please provide more information on the concrete reinforced support stand and the wire pulling box. Are you wanting a concrete pad poured around an access box extending below the primary and secondary compartments?	The new pad is specified to be precast and will need to be designed by the precast supplier based on the transformer that will be supplied.
4.	Please confirm that existing grounding provisions are sufficient, assuming they can be spliced as needed and extended to the new equipment termination locations.	The existing grounds are required to be reconnected to the new switchboard and transformer.
5.	Based on the workflow of activities and few opportunities to do pre-outage work required to replace T(CH6), SWBD P, and MCC8, all associated loads will be offline for an extended time. Is there a tentative/or preferred date to start this outage based on expected environmental temperatures?	The date of the outage will need to be determined by the University. Refer to requirements in the specification's requirements for outage request.
6.	Will there be equipment that may need to be refed from alternate power sources for an extended time frame?	There are currently no plans to temporarily power equipment.
7.	The specs allow only 4 parking passes. Can the number of permits be expanded to accommodate the increased manpower needed to shorten the downtime associated with this equipment changeout?	We can extend the quantity of passes to 8 passes- (available for purchase by the contractor from Parking /Transportation services)
8.	Will space inside the heating/cooling building, on the ground floor, be provided to set up a fabrication/laydown area for the duration of the project	The contractor will be allowed an area of approximately 14' x 14' in one of the storage areas within the facility to use during the project.
9.	Is it the intent that all existing feeders being reworked into the new cabinets, if needed, will have junction boxers installed and adequate lengths of new wire spliced onto the existing wire to reach the new termination locations?	Yes
10.	The specs call out only RGS conduit for the interior feeders but the site visit revealed existing installations utilizing EMT conduit with compression fittings. Will adding this raceway to the specs for interior raceways be considered?	Conduit shall be RGS.
11.	No acceptable Panel-board manufacturers are listed in section 26 2416 of the specs. Any preferred?	Manufacturers that can provide products that meet the requirements of the Specifications subject to shop drawing review will be acceptable. The following are manufacturers that have supplied products in the past Siemens, Eaton, Square D.

12.	Is there any cut sheets or structural notes on the existing 15kv transformer pad available? Looking for pad dimensions, concrete slab thickness, compressive strengths etc.	No additional information will be issued during bidding.