

ADDENDUM NUMBER 1

Date: February 20, 2013

Re: East Energy Deaerator Tank Replacement (H27-I975)
University of South Carolina

A/E Proj. No.: 122968

Submitted By: Danny Wilds, PE
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The following items take precedence over referenced portions of the Contract Documents for the referenced project dated December 1, 2012, and, in executing a contract, shall become a part thereof.

Where any item called for in the documents is supplemented hereby, the original requirements shall remain in effect. All supplemental conditions shall be considered as added thereto.

Where any original item is amended, voided, or superseded hereby, the provision of such items not so specifically amended, voided, or superseded shall remain in effect.

General:

1. The vehicle access will be from the Osborne Parking Lot for required vehicles only. Vehicles must be marked with company logo. Other parking will be available in the Senate Street parking garage.
2. The Contractor shall include the costs to remove and re-install complete the storefront window and doors on the east wall of the building as required to remove the existing deaerator and install the new deaerator. The re-installation shall match the existing conditions of the storefront. Contractor shall document existing conditions of the storefront windows and doors with Project Manager.
3. A non-mandatory Pre-Bid was held on 2/14/2013 at 10:00 am EST, and a subsequent site visit was made available. A site visit is highly recommended. There will be a second site visit for bidders to attend. The second site visit will be held at the East Energy Plant on February 22, 2013 at 1:00 pm EST.

Drawings:

4. Refer to drawing M3, Deaerator / Surge Tank Schedule, under Transfer Pumps, make the following changes:

Quantity: 3
Head: 60 psig
NPSHR: 4.5 ft.
Motor: 7.5 hp

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4. Refer to drawing M3, Deaerator / Surge Tank Schedule, change the note circled "2" to read: "to the steam pressure reducing valves. One PRV shall be sized for 33% capacity, 4,037 lbs/hr, 100 psig steam pressure; and the other PRV shall be sized for 67% capacity, 8,073 lbs/hr, 100 psig steam pressure. This sizing will provide capacity for 100% make-up water at 60°F. Both PRV's shall be rated for 150 psig maximum steam pressure."
5. Refer to drawing M3, Deaerator / Surge Tank Schedule, change the note circled "6" to read:

Boiler Feed Pumps: 3 @ 55.3 gpm plus 15% plus the pump minimum by-pass flow. 4th boiler feed pump shall be stand-by.

Transfer Pumps: 2 @ 82.9 gpm plus 15% plus the pump minimum by-pass flow. 3rd transfer pump shall be stand-by.
6. Refer to drawing M3, Deaerator / Surge Tank Schedule, change the note 10 under Furnish Deaerator Section With to read: "6 ft. high heavy duty structural steel support stand."
7. Refer to drawing M3, Surge Tank Piping Diagram. Change the title of the detail to Deaerator / Surge Tank Piping Diagram. Refer to the attached sketch for changes to the make-up water piping (added by-pass and 2 valves), changes to the pump suction header (connected transfer pump suction header to boiler feed pump suction header with valve), and addition of 3rd transfer pump.

Specifications

8. Refer to section 15100, change the title to this section to Mechanical Insulation.
9. Refer to section 15100 Mechanical Insulation, page 15100-2, paragraph 3.2 Pipe Insulation, insert a sentence after the first sentence of paragraph A to read: "Suction and discharge piping for transfer pumps and boiler feed pumps, including suction and discharge headers and by-pass pipes shall be insulated with 1-1/2" thick rigid pipe insulation."
10. Refer to section 15440 Deaerator / Surge Tank, page 15440-5, paragraph 2.4 B. Change incoming water streams shall be as follows (for design purpose):
 - A. 100% make-up water, 60°F minimum temperature, 25 psig minimum residual pressure at the inlet to surge make-up valve (piped to deaerator section)
 - B. 0% low temperature condensate.
 - C. 0% high temperature condensate.
11. Refer to section 15440 Deaerator / Surge Tank, page 15440-6, paragraph 2.5 A, delete the third sentence of the paragraph reading "One (1) of the pumps shall provide 100% of the total flow as described below, and the second (2nd) pump shall be a full size standby with the same capacity."
12. Refer to section 15440 Deaerator / Surge Tank, page 15440-6, paragraph 2.6 C, change the first sentence to read "A 3-pump common discharge manifold shall be provided and factory-piped to the deaerator section's spray inlet."
13. Refer to section 15440 Deaerator / Surge Tank, page 15440-7, paragraph 2.7, change the third sentence to read "The tank stand shall have a minimum height of 6 feet below the vessel."

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Approved Substitutions:

None

END OF ADDENDUM NO. 1

