

Minnehaha County Facilities & Construction

Energy Plant Chiller Replacement 415 N. Dakota Ave. Sioux Falls, SD 57104

Updated Contractor's Bid Date: October, 21, 2020 9:00 a.m.

Bid Submittal Location: Minnehaha County Auditor's Office
415 North Dakota Avenue
Sioux Falls, SD 57104

ADDENDUM NO. 3:

This Addendum is hereby incorporated into and made a part of the original bid documents for the named project as if set forth therein in full.

GENERAL ITEMS:

1. At no cost, arrangements can be made with the Owner so the parking lot adjacent to the cooling towers can be empty of vehicles during normal daytime hours for crane staging. Coordinate with the Owner.
2. It is acceptable to store the boiler outdoors under a weather proof tarp for up to 3 weeks if necessary.
3. As noted, remove concrete equipment pads which are no longer used.
4. Patch the exterior walls where pipes are removed. Finish shall match existing.
5. Include costs of removing and replacing sections of fence, as necessary, to remove and replace the cooling towers. The equipment yard shall remain reasonably secure at all times. The fence service gate may be used by the Contractor for access to the chiller and pump rooms.
6. Maintenance contracts are to include maintenance for the chillers and cooling towers only. Other equipment in the energy plant such as boilers and pumps shall be excluded.
7. As a point of clarification, all specified equipment is intended to be included in the proposal. Equipment is not being purchased separately by the Owner.

SPECIFICATIONS ITEMS:

1. Bid form: Change "Notice to Proceed, on or near October 27, 2020" to "Notice to Proceed, on or near November 10, 2020". A revised bid form is not being issued.
2. At all locations in the specifications, the word "Bid" shall be replaced with "Proposal" and the word "Bidder" shall be replaced with "Offeror".



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3. 220600, COOLING TOWERS:

- a. Provide an integral vibration switch for the fan with local manual reset. The BAS contractor shall provide controls for fan VFD shut down and alarm upon activation of the switch.
- b. Provide a factory mounted, adjustable, 3-probe water level sensor. Provide a basic sensor and associated control board. The sensor needs to be able to produce a binary signal for a call for make-up water which shall be wired by the BAS Contractor to the existing indoor water fill controller and valves. Do not provide a complete system with tower mounted solenoid valve.
- c. Cooling towers may be counter-flow or cross-flow.
- d. Cooling tower fans shall be belt drive type.
- e. Counter-flow cooling towers shall have a working platform at the access door in addition to a ladder with handrails. Cross-flow cooling towers shall have a ladder with handrails but are not required to have a working platform at the access door.
- f. Provide for the passivation process for galvanized cooling towers. Work with the Owner's Water Treatment Company to follow the tower manufacturer's recommendations for passivation. Include all costs. In early spring time when the project is scheduled for completion, it will be possible to provide cooling with only one chiller and tower, so passivation can be done to the stand-by tower.

DRAWING ITEMS:

DRAWING SHEETS M1

- 1. COOLING TOWER SCHEDULE: Replace the schedule with this schedule. The towers are completely independent but is a "twinned" style that can be co-located.

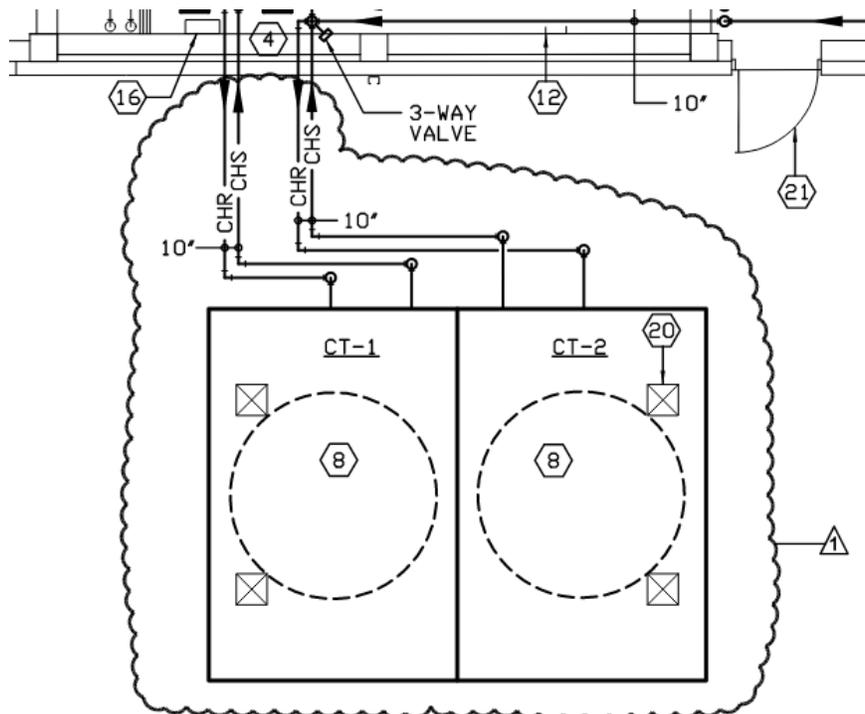
COOLING TOWER SCHEDULE															
CHILLER NO.	MANUF	MODEL NO.	TONS REJECTED	GPM	EWT	LWT	EADB	EAWB	CFM	ELEC. VOLT	PH	FAN HP	FLA	OPER. WEIGHT	REMARKS
CT-1	EVAPCO	AT 224-4P18	882.5	2125	94	84	95	78	164,350	480	3	60	68.3	22,520	ALL
CT-2	—	—	882.5	2125	94	84	95	78	164,350	480	3	60	68.3	22,520	ALL
REMARKS:															
1. INLET PRESSURE DROP 3 PSI. 17 GPM EVAP RATE. SOUND PRESSURE 84/71 dB(A) SIDES, 85/72 ENDS, 88/79 TOP @ 5'/50'.															
2. PROVIDE WITH TWO 15 KW TANK HEATERS AT EACH BASIN, 460V/3PH WITH INTEGRAL CONTROLS.															
3. CT-1 AND CT-2 ARE EACH ONE SIDE OF THE DOUBLE UNIT. SCHEDULE PERFORMANCE IS FOR EACH. TOWERS SHALL OPERATE COMPLETELY INDEPENDENTLY.															

DRAWING SHEET M2
MECHANICAL DEMO

1. Salvage the existing chemical pot feeder at existing pump P-3 to the Owner.
2. Coordinate with the Owner for other items to be salvaged.
3. Note 9: Replace the word "FILTER" with "BROMINE".
4. Salvage all the R-134a refrigerant from the chillers in Owner furnished containers and turn over to the Owner.
5. Change the north arrow to be to the right.
6. As stated in Addendum 2, disregard Addendum 1 pertaining to the salvage of the chiller. Follow the note #2 on drawing sheet M2 "REMOVE AND DISPOSE OF CHILLER". The contractor shall be fully responsible for removing the chiller and shall take possession of it.
7. Remove existing steel beams from under the cooling towers. The concrete columns shall remain.

DRAWING SHEET M3
MECHANICAL

1. Note 15: Replace the word "FILTER" with "BROMINE".
2. Change the north arrow to be to the right.
3. See revised twinned chiller and piping layout below.
4. Modify note 20 to read: "USE EXISTING CONCRETE COLUMNS. PROVIDE NEW BEAMS TO ACCOMMODATE NEW TOWERS. SEE STRUCTURAL DRAWINGS."
5. See structural drawings for details of new steel to be installed under the new cooling towers. These drawings will be issued in the next addendum.



DRAWING SHEET E1
DEMO

1. Salvage the variable frequency drives to the Owner.
2. Remove 7 each 8' stem mounted industrial fluorescent luminaires at the low ceiling area where 9 pumps are being removed (east of the line with the "WALL LINE ABOVE" note).

DRAWING SHEET E2

1. Provide 7 new type "A" luminaires at the low ceiling area where 8 new pumps are located (east of the line with the "WALL LINE ABOVE" note). Coordinate installation with the owner and mechanical contractor and connect the new luminaires to the existing lighting branch circuits that served the removed luminaires, extend/reroute the existing raceways and conductors as required for installation.
 - A. Type "A" luminaire shall be equal to Mercury Lighting LW14-8-60L-40K-HTA-UNI-AC24 (LED industrial, 8' length, cable hung as high as possible, approximately 6000 lumens).
2. The existing main switchboard "MB" and new main circuit breakers "MCB-CH1" and "MCB-CH2" shall be identified in accordance with the NEC

DRAWING SHEET E3

1. Equipment Schedule: Items 3 and 4 (cooling tower fans) shall be 60HP in lieu of 50HP.

SUBSTITUTIONS AND PRODUCT OPTIONS

The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

SECTION	ITEM	MANUFACTURER
220600	Cooling Towers	BAC, Marley

Offerors shall acknowledge receipt and acceptance of this ADDENDUM by signing the space provided on the proposal form.
END OF ADDENDUM