

**The following changes in the Tender Documents are effective IMMEDIATELY.
This addendum will form part of the Contract Documents**

Amend/revise the Standard Contract Documents as follows:

MODIFICATION TO THE WORK

1. Refer to Drawing E1.0 – The existing chiller transfer switch located within the mechanical room shall be removed. The contractor shall be responsible for removing the emergency power feed for the transfer switch back to the CDP. The contractor shall reuse the existing tech cable (utility and feeder cables) to feed the chiller. Provide a junction box c/w lugs located up in the ceiling space to reconnect the chiller load.
2. Refer to Drawing E1.0 – The electrical contractor shall run all feeders / control wiring, etc in conduit (rigid PVC underground) from the new generator to the west outside wall near room 1670. The contractor shall then run the conduit into the building on the main floor and run along the ceiling to the transfer switch location. Feeders shall not be run in tech cable.
3. Refer to Drawing M1.0 General Demolition Notes - The contractor shall be responsible for repairing the roof for all penetrations associated with the removal of the existing remote radiator. The roof repair shall be completed by a certified roofing contractor and shall be completed to a level of acceptance to match the existing roof structure. The contractor shall include within their bid price the costs of inspection and shall carry IRC to complete the inspection work.
4. Refer to Section 01 11 55 Item 3.6– Revise this statement to read “Work affecting laboratory operations shall be carried out after normal hours as defined in 3.1. Any shut down of service shall require 72 hours notice minimum.”
5. Refer to Section 26 32 23 – Automatic Transfer Switches. This specification section was not included within the original tender documents and is now attached.
6. Refer to Specification 26 32 10 – A revised specification has been provided. See attached.
7. Refer to Drawings and Specification 26 05 21. Delete the allowance of tech cable for cable runs all cables shall be RW90/RWU90 and shall be run in conduit. Tech or flexible conduit shall only be permitted for final connections to motors/generators or as approved by this consultant.
8. Delete Specification section 01 11 55 note 41 for requirements associated with unit pricing costs for the temporary generator/transfer switch. The contractor shall be responsible for the rental costs of the generator/transfer switch that is on site from Cummins. Contractors shall contact Darrin Zuzula regarding pricing of the rental generator. The contractor shall be responsible for all costs of the rental generator from project award to final completion of the project. Project completion is estimated at 24 weeks. Contractor shall include the costs associated with the disconnect and removal of the generator upon contract completion. Contractor shall be responsible for fuel costs

associated with the contract including testing of the new generator, monthly testing of the temporary generator, and any project-related shutdowns. The contractor shall complete monthly testing of the temporary generator in accordance with the owner's testing requirements.

9. Refer to Drawing E1.0 All existing generator controls from the interior generator shall be removed back to source. This includes removing any items which are currently on the Metasys building operations system.
10. Refer to Drawing E1.0 General Note 2. Revise to read "The contractor shall complete any work which may affect the normal working environment of the building after hours. Work which may disrupt the owner shall occur on weekends or after hours at a time acceptable to the owner. The owner will not consider any additional charges to the contract for overtime work."
11. Refer to Drawing E1.0 Drawing Note 15. Revise to add "The contractor shall be responsible for ensuring that the connections are made between the generator/transfer switch and the building management system. The contractor shall be responsible for hiring Johnson Controls as a sub to connect to the Metasys system. Johnson Controls shall be responsible for providing a graphics interface of the generator and transfer switch and all necessary control wiring. Monitor points shall include On/Off, oil temp, motor temp, coolant temp, alarms, fuel levels, battery level, kilowatts produced, as well as transfer switch operation. Refer to specifications for additional monitored points."
12. Refer to Drawing E1.0 Drawing Note 18. Revise to add "The existing exterior fuel tank level shall be monitored and must have the following items added. Provide a visible level indicator on the tank. Fuel level information must be logged and recorded in the existing BAS system. An alarm must be triggered on the existing Metasys system when the fuel level dips below the acceptable threshold.
13. Refer to Drawing E1.0 Drawing Note 8. Revise to add "Feeders shall be new. Contractor shall not reuse the existing feeders from the existing transfer switch to MCC-1A."
14. Refer to Drawing E1.0 Drawing Note 19. This note should be drawing to the new generator.
15. Refer to Drawing E1.0 Drawing Note 13. This note refers to the new generator.
16. Refer to Drawing E2.0 - Revise feeders from generator splitter to load bank and E-CDP from (3x 600MCM tech or 2 parallel runs of 3x 300MCM tech) to (3 #600MCM & #2 insulated ground in 91mm conduit or 2 parallel runs of (3 #300MCM and #4 insulated ground in 63mm conduit)). Contractor may transition from PVC to flexible cables for final connections at the generator.
17. Refer to Drawing E2.0 - Revise the feeders to the generator power panel from 3#1 teck to 3 #1 & #6 insulated ground in 41mm conduit. Contractor may transition from PVC to flexible cables for final connections of the generator panel.

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18. Refer to Drawing E2.0 - The generator breaker shall be sized for 400A as per the drawing to limit the current to the E-CDP to 400A. The breaker shall be revised to a shunt trip. Provide connections to open breaker as per SaskPower requirements.
 19. Refer to Drawing M1.0 - Existing fuel recirculation pump shall be replaced with a new pump of equal capacity to existing. Contractor shall remove existing pump, install new pump and reconnect the associated electrical feeds. New pump location shall be on the floor near location of existing pump.
 20. The new fuel pump shall have the following specifications:
 - 1.1 Simplex Fuel-Oil Pumps
 - i. Manufacturers: Subject to compliance with requirements, provide products by the following: Simplex Fuel Supply Systems, Viking Pump.
 - ii. Single Positive displacement gear pumps, cast iron body, machined steel gears construction, mechanical shaft seal, ODP direct drive.
 - iii. Wye strainer, single element
 - iv. Leak detector, with alarm contacts
 - v. Flow switch, each pump, with alarm contacts to controller
 - vi. Check valves each pump, swing-type
 - vii. Threaded main inlet and threaded outlet
 - viii. Pump starters for each pump. full-voltage, circuit breaker combination motor starter, with control power transformer, HOA switch, run indicator, power available indicator
 - ix. Single-source power supply
 1. Source connected indicator
 - x. Capacities and Characteristics: 31.9 gal/hr to match genset fuel consumption

ADDITIONAL INFORMATION FOR CLARIFICATION

1. Refer to Section 01 11 55 – work hours within the building shall be completed as per 3.1, 3.2, 3.3 of the specifications.
2. As indicated in Section 26 05 34, Item 1.3 “All cable and conductors for power, communications and signal systems shall be installed in conduit as herein specified unless otherwise noted”.
 - 1.1 Teck cable shall not be used unless approved otherwise.

END OF ADDENDUM 1