



## **ADDENDUM # 2**

*Solicitation Number: 17-1173*

*Title: 17-1173 CEF Supply and Install Variable Speed Drives (17-1173)*

*Date: November 1, 2017*

The following supplements and/or supersedes the Invitation to Tender documents issued on October 3, 2017. This addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. Any change to the cost of the work as a result of this addendum is to be included in the price proposal. The following revisions supersede the information contained in the original Invitation to Tender Package for the above-mentioned project to the extent referenced and shall become part thereof.

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### **DRAWINGS AND SPECIFICATIONS**

The following additions, deletions & revisions form part of the drawings and specifications for the above referenced project:

#### **CHANGES TO SPECIFICATIONS**

Insert Siemens P1 protocol

- 1. At Section 23 34 00 – HVAC FANS, Part 2 Products, article .1 VARIABLE FREQUENCY DRIVE,**

**DELETE:**

- .6 Serial communications:
- .1 VFD shall include a standard EIA-845 communications port and capabilities to be connected to the following serial communication protocols at no additional cost and without a need to install any additional hardware or software in the VFD:
- Johnson Controls Metasys N2
  - Modbus RTU
  - Bacnet MS/TP

**INSERT:**

- .6 Serial communications:
- .1 VFD shall include a standard EIA-845 communications port and capabilities to be connected to the following serial communication protocols at no additional cost and without a need to install any additional hardware or software in the VFD:
- Johnson Controls Metasys N2
  - Modbus RTU
  - Bacnet MS/TP
  - Siemens P1 protocol
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## **QUESTIONS AND ANSWERS**

1. What are we to do with the existing starter contactors and O/L units leave in place and operational or abandon and remove these components retaining only the disconnect.
1. Leave disconnect switch only in place in two locations (unit 4 & 5), remove where VSD will be installed in that location.
2. Confirm we are to reuse the existing AHU feeders from the MCC to the AHU and extending these conductors is acceptable.
2. Yes, reuse the existing AHU feeders from the MCC to the AHU. Yes extending these conductors is acceptable as long as to per latest edition of OESC.
3. Please confirm the capacity of the existing hoist and that we are allowed to utilize it.
3. The hoist is a 3 ton rated lift. The successful bidder is to provide chain block. Yes, the successful bidder is permitted to use it
4. Will VFD rated cable be required from the VFD to the existing disconnects and new motors.
4. Yes, provide new, XLPE 1000V, rated conductors on the load side of the VFD and conductors to be free of any splices or joints.
5. Please provide existing motor nameplate information.
5. This unit was made available during job showing. Please see the picture below. Motor is 75HP.
6. Is teck cable a suitable alternative to conduit.
6. No, conduit is required.
7. There are no specifications for the motors, or for the controls will specifications be issued for these 2 items.
7. Specifications for motors are listed in the specs. Inverter-fed duty in accordance with Part 31 of NEMA Standard MG-1. Mounting base to match existing. Controls are in-house done in conjunction with winning bidder.



8. As per Spec Section 23 34 00 3.6.1, the 5 year all-inclusive maintenance contract. Is that to include all labour and materials for manufacturers suggested maintenance only? Are service calls and repair (if required) also expected or will they be looked at separately? Obviously, this makes a large difference in pricing.
8. The all-inclusive maintenance contract will include all materials and labour for manufacturers suggested maintenance as well as all product related service and repairs required for the term.
9. Can you please verify who the base building controls contractor is?
9. Controls are done in-house by Agriculture and Agri-Food Canada employees.

10. Can you confirm that Agriculture Canada is carrying the COST and Responsibility for the "Controls Programming" of your Building Automation System and it's communication/operation to the NEW VFDs?

There is a line on the drawing that states: "All controls work to be completed by the base building controls contractor" but it does not mention who carries the COST of that service.

My understanding is that the Selected Contractor is responsible to run the communication cable/conduit to each respective VFD and will be activated when the VFDs are commissioned.

10. All control work will be carried by 'in house' forces in coordination with contractor. 3/4" conduit control wiring pull string and pull boxes is required between VFD and existing BAS, allow for 20 m for each unit. All installations must be to Electrical Code requirements.

11. Section 23 05 93....Testing, Adjusting and balancing for HVAC.

Please confirm that the selected contractor is responsible for this Service/Function.

Item 1.1.1 creates confusion...it states that TAB is used for Hydronic Systems. There is no Hydronic system in this project.

IF this service/test and report is expected, I will reach out to a company who offers this service...but for your HVAC system.

11. Yes, that is correct there is no hydronic system to work on. Air balancing of supply air fans is required.

**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.**

End of Addendum #2