

ADDENDUM M1

Project: S.I.S. B.M.S. Upgrades

Owner: Province of Prince Edward Island

Distribution: Tyler Gallant

Copied: None

Issued by: Joe Bystryk

The following information modifies the bid documents issued including all prior addenda. This addendum forms part of the Contract Documents and is to be read, interpreted and coordinated with other parts of the Contract Documents. Acknowledge receipt of this addendum by referencing on the bid form.

CLARIFICATIONS:

1. Points list shows actuators for heating radiation in rooms 217 and 227 as both replace and reuse. Existing valves and actuator are documented as electric and may be reused at the contractor's discretion.
2. Additional points may be reused where the specifications call for replacement if the contractor can show that the existing devices can be used and calibrated and operate as accurately as new devices.

CHANGES TO THE SPECIFICATIONS

Refer to 25 05 00

1. Revise 1.2.6.1 as per below:
 1. The following is additional work which may not be apparent in the specifications which is required to be included as part of this tender:
 - a. **[Deleted]**
 - b. The replacement of the existing starters with variable speed drives for:
 - i. C-1
 - ii. C-1A
 - iii. C-2
 - iv. AHU-2
 - v. **EF-7 [if required]**
 - vi. Installation of variable speed drives shall include removal of starters and additional wiring as required. VFD may be mounted on individual field fabricated stands near the units served. Include to extend wiring as required. VFD as required to be relocated where wiring distance precludes reusing the existing starter location.

7/8/2019

- c. Installation of all water flow meters into existing hydronic piping. Flow meters shall be installed with manual isolation ball valves on each side (butterfly valves not allowed). Meters shall be installed with flanges or unions.
- d. Installation of new automatic shut-off valves into hydronic piping.
- e. **[Deleted]**
- f. Installation of new water temperature wells into existing piping.
- g. Include for providing new insulation on new piping/devices and fixing existing insulation where disturbed.
- h. All electrical work required based on the additions/changes/deletions of the BMS points or devices.

Refer to 25 06 00

- 2. Revise the following points:
 - a. BLR1_OIL: Replace with current switch on boiler to totalize the number of operating hours and multiply by the rated oil consumption in order to determine hourly oil consumption. No oil meter is to be provided.
 - b. BLR2_OIL: Replace with current switch on boiler to totalize the number of operating hours and multiply by the rated oil consumption in order to determine hourly oil consumption. No oil meter is to be provided.
- 3. Revise the following points:
 - a. BLR_RWT: Provide on boiler 1 only. No common location in the piping to obtain common temperature.
- 4. Add the following points:
 - a. BLR_RWT2: Boiler B-2 return water temperature.
- 5. Clarifications: Boiler motorized isolation valves (BLR#_V) may replace the existing manual isolation valves as long as the actuators have a manual over-ride function.
- 6. Replace the oil consumption meters with current switches on the burners as noted for the boiler oil meters.
- 7. Motor on C1, C1A and C2 shall be replaced with premium efficiency, inverter duty rated, 208V 3 phase motors. Verify voltage on-site before ordering.
- 8. Motor on AHU2 shall be replaced with a new premium efficiency, inverter duty rated motor. Voltage and size to be verified on-site before ordering.
- 9. EF-7 shall be replaced in it's entirety. Suggested replacement:
 - a. Cook, ACE-D
 - b. Size 210C11D, 3000 CFM (1416 L/s) @ 0.75"W.C. (333 Pa), 30"x30" curb
 - c. 208V, 2 HP, variable speed.
 - d. Contractor may be replaced with alternate fan from approved fan manufacturers. If 120V/1p motor is provided, the contractor may re-use existing wiring and shall provide a curb adapter. Otherwise contractor shall source and provide new power for the fan. Approved manufacturers: Greenheck, Acme, PennBarry, Cook, Soler & Palau

Prepared by:

Joe Bystryk, P.Eng
Orange Door Engineering