

Project No.: R.074103.001

September 21, 2015

The following changes to the tender documents are effective immediately and will form part of the contract documents:

The following response is to address questions raised by potential bidders for the above noted project. This response will provide both clarifications on questions regarding the tender documents and revisions to the design drawings and technical specifications that are to be issued to modify parts of the tender documents for PWGSC.

1.0 CLARIFICATION

FIRE PUMP CONTROLLERS

Fire Pump Controllers FPC-1 and FPC-2 shall be by the same manufacturer and supplied in a package with Fire Pump FP-2. Applicable standards to be met for manufacture, testing, and installation are UL 218, CSA C22.2 No. 14, cUL, FM Global, the National building Code, NFPA 20. Enclosures shall be NEMA 4, powder coat painted red. Ambient temperature rating 5C to 40C. Accessories shall include bottom entry gland plate, lifting lugs, and keylock handle. Pressure sensor with continuous system pressure display and cut-in and cut-out pressure settings. Pressure connection 1/2" NPT female. Drain connection 3/8". Rated 0-500psi working pressure. Pressure event recordings with date stamp stored for up to 5 years and viewable on interface screen and downloadable to USB stick. 4" alarm bell, 85dBA at 3m. Visual and audible alarms for key status points. 8A, 250VAC alarm contacts. 4.2" color touchscreen interface with upgradeable software and expandable storage. HOA selector switch behind lockable cover. Automatic start feature on pressure drop or remote start signal. Manual start pushbuttons. Programmed crank cycles with rests between crank attempts. Manual stop pushbutton. Automatic shutdown after expiration of timer. Minimum run timer, sequential start timer, and periodic test timer. Controller shall communicate via Modbus TCP.

FPC-1 shall be suitable for diesel engine driven pump application. GPD type controller, 24VDC, with 304 stainless steel mounting stand painted red, A5 fail to start contacts, A8 AC failure contacts, A9 system overpressure contacts, B1 low fuel contacts, B2 low reservoir contacts, B4 low pump room temperature contacts, B6 low discharge pressure contacts, C13 louver activation circuit, C14 delayed start on power failure configured for 30s, C19 interlock circuit, D7b low fuel float switch (1-1/2") to be installed and connected by Contractor.

FPC-2 shall be suitable for electric pump application. GPR type controller, 600V, 125hp rated, 50kA short circuit rating, surge arrestor, disconnect means with magnetic only circuit breaker and flange mounted operating handle, suitable for use as service entrance equipment, emergency start handle, locked rotor protection, voltage and amperage readings, C1 run contact, C6 low discharge pressure contact, C7 low pump room temperature contact, C10 low reservoir r level contact, C15 fail to start contact.

Submit shop drawings. Install, connect, and test controllers to manufacturer recommendations, the National Building Code, and NFPA 20. Provide testing and commissioning results. Submit O&M Manuals.

2.0 TECHNICAL SPECIFICATIONS

None

3.0 DESIGN DRAWINGS

Drawing E-02

Refer to the Luminaire Schedule

Add "Or equivalent Delviro VT4S/VT8S series" to Type A.

Add "Or equivalent Beghelli NV12 series" to Type EBB1.

Add "Or equivalent Beghelli FTZ-RM series" to Type E2.

Add "Or equivalent Beghelli BRV-R series" to Type E4.

Add "Or equivalent Cooper XTOR series" to Type F.

END OF ADDENDUM NO. 4