

REQUEST FOR PROPOSALS "RFP" / PS20161903  
FALSE CREEK ENERGY CENTRE BOILER REPLACEMENT

QUESTIONS AND ANSWERS NO.5

ISSUED ON FEBRUARY 14, 2017

Q1	From what we have been told, the Boiler Controllers (AutoFlame Mk6's that are currently mounted on the boilers) are not compatible with the new version of the Control Interface Panel (AutoFlame D.T.I.). This means that there is no way for us to replace the existing boiler 1 without having to replace both the Boiler Controller as well as the Boiler Interface Panel. This in-turn means that Boiler 1 and Boiler 2 controllers would need to be upgraded in order to for all the systems to work correctly. This means that item 2.1.4 and 2.1.5 optional prices are not optional, they are Mandatory if the client is to use AutoFlame.
A1	If an AutoFlame Mk-8 boiler controller is supplied for the new boiler, an AutoFlame Mk-7 DTI needs to be supplied as well to communicate with this boiler. The new Mk-8 boiler controller and Mk-7 DTI for the new boiler would operate in combination with the existing boiler #2 and boiler #3 Mk-6 controllers and Mk-6 DTI. The boilers would be interfaced through the Plant PLC (the City NEU and SCADA teams are considering upgrading the Plant PLC, but this is not included in the scope of work of this RFP; more on this below). The City will most likely be left operating two plants, one with the new system and the other one through the Mk-6 DTI, and we are aware of this. The City will like to review the costs that would be associated of upgrading all 3 boilers controls as an "option" and will decide which route to take upon completion of this RFP.
Q2	The other issue that we are aware of is that the existing PLC system is limited to a single Modbus connection to the existing Boiler Interface Panel and would only be capable of reprogramming a replacement AutoFlamw D.T.I.. All of this combined means that based on the current Technical Requirements, the contractors are left with no choice but to supply an AutoFlame controls replacement.
A2	<b>No.</b> The contractors can propose an Autoflame controls system or equivalent that has Modbus serial or ethernet connectivity to the Plant PLC.
Q3	3 If the owner would like more flexibility and other solutions that may be better for the long term operation of the facility, the technical requirements should be modified so that there are two controls options. 3.1 Upgrade the existing AutoFlame Mk6 boiler controllers to Mk7 or Mk8 on all three boilers and the Boiler Interface Panel (AutoFlame D.T.I). The owner would then have to make any modifications to the existing PLC in order to interface with the new

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	D.T.I.. 3.2 Replace the existing PLC controllers and modules with a new more flexible PLC solution. Replace Boiler 1 with a separate Modbus connection and have the PLC connect to both the existing D.T.I and the new Boiler Controller. The PLC would then control the D.T.I and the new Boiler controller separately.
A3	3.1 This is an option that we would be considering in this RFP separately.. 3.2 The City NEU and SCADA teams are considering replacing the Plant PLC and reviewing this upgrade internally, but it has not been confirmed and it is not included in the scope of work of this RFP. If the Plant PLC is to be upgraded, it will be upgraded to a City standard PLC and done internally by the City's SCADA team.
Q4	If the technical requirements were to be re-written to the above, the City would need to issue all existing PLC controller drawings complete with a list of all existing controller locations, modules installed and programmed sequences.
A4	<b>Not applicable.</b>
Q5	This all is contrary to the discussions at the first site meeting where the City had mentioned they were going to do the programming on the PLC and the current PLC would likely need an upgrade and that was something that we could price for
A5	<b>The City will do the programming on the PLC. Supplying and installing a new PLC for the plant is not included in the scope of work of this RFP.</b>
Q6	The discussion was around leaving the current Autoflame sytem alone and running the new boiler(s) directly to the PLC leaving the old boiler spare parts for the 2 remaining existing boilers
A6	<b>This is a possibility, should the remaining existing boilers #2 and #3 continue to be controlled with the existing AutoFlame Mk-6 controllers.</b>