

EQ734-150718 Kingston Penitentiary Heating Plant Upgrade  
Questions and Answers #1

1. Upon review of the drawings I have found that none of the pumps slated for re/re have sizing

New pumps being installed are P-6 & P-7 (feedwater pumps) and P-1 & P-2 (condensate pumps). Sizes for all four pumps are provided in schedule on M400.

2. Also it is unclear if high temp water heater #2 is to remain as it shows all of its piping getting removed.

Thermal fluid heater #2 is being demolished (see M100, drawing note 7; M101, drawing note 10; M102, drawing note 4).

3. If it is to be removed will it be replaced? Can we get a detail on this please.

Thermal fluid heater #2 is not being replaced.

4. Are there any base building contactors, controls, electrical, etc.... on this job or is it open to anyone.

Open tender

5. Can we get the make and model number of the existing boiler on site?

Information added to drawing M201, drawing note #2.

6. Also, it states that as of Oct. 15 if not complete must supply temporary boiler. Can you find out what the minimal requirements for temporary heat will be?

Requirements for providing temporary boiler are being removed from Scope of Work. Refer to new phasing on M401 for proposed means of completing work while maintaining plant operability.

7. During the site visit it was observed that the boiler controls were to be replaced however the scope of work does not mention this. Are new boiler controls for boiler #1 part of this project. Section 23 52 00, subsection 2.2 only describes the panel requirement for the existing boiler.

01 11 00 updated to include new controls in Scope of Work.

8. If new controls are part of the project what is the existing Points List.

23 52 00 updated with points list.

9. Are the controls for boiler #1 to be of the same manufacture as the controls on boiler #2.

Not required. Drawing M201 has been modified to reflect this.

10. During the site visit it was noticed that the fuel train components on boiler #1 will not pass current TSSA requirements. The scope of work does not address this.

Gas train modification not in Scope of Work. Will be issued in CCN if required.

11. Are new controls required on the Oil to Steam converter. If yes, what is the Points List.

No.

12. Will there be any plant common points to be monitored or controlled. If so provide a complete Points List.

No.

13. Regarding the controls upgrade for boiler 1, there needs to be more information provided. The boiler controls can be upgraded but the existing control panel in the operator room that is being replaced also controls other systems in the plant such as Feedwater system, condensate systems, Dearator systems etc. essentially by replacing the controls n boiler 1 a complete building management system will need to be installed which requires a lot more info from the Engineer. In addition, the entire gas train on the existing boiler 1 is not to code and will require essentially complete replacement which will require TSSA review and approval (which typically take 2-3 months). Please provide in-depth information as to this request and provide complete BAS points list and system operational schedule

New controls for boiler #1 are standalone. Panels in control room are being demolished. See points list added to 23 52 00. Gas train modification not in Scope of Work.

14. The existing control panel for the two Feedwater pumps (P /P ) Is to be replaced, please provide system operational sequence so we can have a panel fabricated to meet engineers requirement

No controls for new feedwater pumps. Pumps are manual control. New controls sequence for cond. Pumps sequence provided in 23 22 23

15. Regarding the October 15<sup>th</sup> heating deadline, can the existing boiler 1 work be put off until the new system is operational so that a rental boiler is not required.

Work on boiler #1 to be done after install of new boiler. New proposed phasing provided on M401.

16. If boiler rental is required, what size is required and can you tell us the tie in points for the boiler services (Feedwater, steam, blow down, power connection/panel tie in breaker etc), and who will be responsible for the daily operation of the boiler.

Temp. boiler rental is outside Scope of Work. Tie-in points, if required, to be used from connections to boiler #2, which is demolished as part of Scope of Work. Refer to proposed phasing on M401 and general note on M100, M101, M102, and M103.

17. At what operating pressure does the new boiler operate at

23 52 00 and M401 updated with boiler information.

18. For the steam pressure piping section 232013 item 2.2 page 6 you specify class 150 flanges but the gate valves are specified as class 300 . clad 300 valve will nit bolt to class 150 flanges. Please clarify

23 20 13 updated with clarification.

19. For the steam pressure piping section 232013 item 2.3 page 6/7 you specify piping for up to 1.7 MPA. Please identify which piping this is applicable to.

23 20 13 updated with clarification. Section is revised to be for up to 6 MPA piping, that may be present on the new boiler accessories, including economizer safety relief piping.

20. Who is the boiler manufacturer for the project? It does appear this project is designated for a specific manufacturer that is not listed on the drawing or in the specs.

Boiler specification is performance based.

21. There is a firm date of Oct 15<sup>th</sup> for the installation of the new boiler, we would like to know if there is a possibility of extending that date?

Work on Boiler #1 to be done after install of new boiler. New phasing provided on drawing M401. Existing Boiler #1 is to be used for 2014-2015 heating season until new boiler is operational. This is what the October 15<sup>th</sup> deadline refers to – that the plant must be usable for the 2014-2015 heating season. In this case, the existing systems will be used, so the contractor must simply maintain the existing operations for the heating season until the new boiler is operational.

22. Our understanding is boiler #1 controls do not meet current code requirements. We are inquiring for the extension for this reason. Time will not permit the upgrade of boiler #1 and installation of the new boiler by Oct 15<sup>th</sup>. We do understand that a temporary boiler is required if the deadline is not met for the new boiler install. We would like to know if there will be a requirement of a temporary boiler for upgrading boiler #1?

Work on Boiler #1 to be done after install of new boiler. New phasing provided on drawing M401. Temp. boiler rental is outside Scope of Work.