

Questions and Answers as of 24 June 2009

This document will be continually updated with questions and answers. Please be sure to check www.fbo.gov for the latest Q&A document.

1. **QUESTION: We would like to submit a proposal for this project but are unable to complete it by the due date of 07 Jul 2009. We are requesting an extension of 3 weeks to properly prepare our proposal**

ANSWER: See Amendment 0003. The proposal due date has been extended to 14 July 2009 at 2:00 PM local time. In addition, the RFI submission has also been extended to 30 June 2009 and the Government response time to 6 July 2009

2. **QUESTION: Could you please extend the date June 19th by one week to June 26 for submitting RFI's?**

ANSWER: See Question #1

3. **QUESTION: Will new RO (reverse osmosis) and softener system as detailed in spec sections 23 26 00 and 22 31 11 be purchased for this project...or will existing water treatment equipment be moved and reinstalled?**

ANSWER: Under Review.

4. **QUESTION: There are blueprints listed in the index that are not included within the blueprints. I am inquiring if these blueprints are supposed to be added, or if they were accidentally listed on the index, but are actually not supposed to be included with the blueprints. The blueprints are: MP012 through MP015; MP 230.2; MP650-MP654; MP 800 and MP807.**

ANSWER: Under Review.

5. **QUESTION: Have the required pre-renovation inspections been conducted for hazardous materials such as asbestos, lead, PCB's, etc? Would you like a cost estimate for such, or for abatement air quality testing?**

ANSWER: Under Review.

6. **QUESTION: We have reviewed the Drawing No. List found on sheets 47 thru 50 of 69 within the issued specifications, in comparison to the list of documents down loaded from the www.FBO.gov web site. We have found that several drawings are missing from the list, as follows.**

from file FY 09 VA Battle Creek Boiler Replacement Part 2.PDF

MP012 Vault 3-Plan, Elevations, and Isometric

MP013 Vault 7-Plan, Elevations, and Isometrics

MP014 Vault 10-Plan, Elevations, and Isometrics

MP015 Vault 10-Plan, Elevations, and Isometrics

from file FY 09 VA Battle Creek Boiler Replacement Part 4.PDF

MP230.2 Mech Roof Elevations

MP506 Mech Details

MP650 Boiler Schematic

MP651 Boiler Schematic

MP652 Hot Water Piping Schematic

MP653 Gas Burner Piping Schematic

MP800 HVAC Controls Floor Plans

Please issue these drawings immediately, or if not included change the drawing list and reissue.

ANSWER: Under Review.

7. **QUESTION: I have been reviewing the specs and was very curious why the choice of reciprocating air compressors? It is extremely uncommon to see reciprocating compressors of this size used for this application. Has there been thought of rotary screw air compressors and if see would they be considered for an alternate proposal?**

ANSWER: Under Review.

8. **QUESTION: Will a State of Michigan Boiler License be required for the inspections and code requirements on this project?**

ANSWER: Under Review.

9. **QUESTION: Will the government allow the use of modular quick recovery water tube steam boilers to satisfy the load and back-up requirements (N+1) if all other requirements are exceeded.**

ANSWER: Under Review

10. **QUESTION: Please verify sheet number A-400 should be labeled as MP-230.2.**

ANSWER: Under Review

11. **QUESTION: REFERENCE 00010, Pg 3. Existing plant water softener and reverse osmosis treatment equipment is to be moved and reused. Drawing MP804 lists the point list for the reverse osmosis system. Are these points available via Modbus per the specification and is the control system to be reused?.**

ANSWER: Under Review

12. **QUESTION: REFERENCE 23 09 11, Page 2, 1.3.E.4 and 23 09 11, Page 15, 2.2.J.2.b. Are control systems without this safety feature excluded from bidding?**

ANSWER: Under Review

13. **QUESTION: REFERENCE 23 09 11, Pages 5 & 6, 2.1.A.3, A.4, A.5. Is the intent of the specification that these items are supplied by the combustion control or burner manufacturer and not the manufacturer of these systems? Typically all other VA specifications list these systems in their respective sections such as 23 26 00 for reverse osmosis water equipment.**

ANSWER: Under Review

14. **QUESTION: REFERENCE 23 09 11, Pg 8, 2.1.B.6.b. Typically the UL 508 label applies to the burner management system only. Does the UL 508 label and the associated costs with the label need to be applied to all of the panels including the main panel and combustion control panels?**

ANSWER: Under Review

15. **QUESTION: REFERENCE 23 09 11, Pg 11, 2.2.A.2. Is draft control required?**

ANSWER: Under Review

16. **QUESTION: REFERENCE 23 0911, Pg 28, 2.4.E. Should the emergency Plant Shutdown System switch be located on the burner management panels, one per boiler?**

ANSWER: Under Review

17. **QUESTION: REFERENCE 23 09 11, Pg 29, 2.5 Many plants have a burner mounted burner management system and a separate floor mounted panel for the combustion control system. Is this allowed if the burner and combustion control company agree on this approach?**

ANSWER: Under Review

18. **QUESTION: REFERENCE 23 09 11, Pg 53, 2.1.3.A. Vortex flow meters operate well with straight run lengths of 40 pipe diameters. What are the boiler line sizes for boiler steam flow?**
ANSWER: Under Review
19. **QUESTION: REFERENCE 23 09 11, Pg 56, 2.1.3.E. Turbine meters are specified. What are the gas line pipe diameters and straight run lengths available?**
ANSWER: Under Review
20. **QUESTION: REFERENCE Drawing MP802. Detail 3 should remove the flue gas analyzer reference.**
ANSWER: Under Review
21. **QUESTION: REFERENCE Drawing MP802. The SCADA I/O points shown on Drawing MP804 indicate that they are to be provided per Section 23 09 11. The three boiler panels, (B2, B3, B4), catwalk control panel system, basement control panel system are to be included on the network with the workstations to be OWS #1, OWS # 3 and OWS # 4. Are the items shown as “equipment controllers and Chemical Controls to be included with the 23 09 11 network?**
ANSWER: Under Review
22. **QUESTION: REFERENCE Drawing MP804. Is the Catwalk Control Panel one panel with separate touch screens and modules for the Compressed Air System, Combustion Air Makeup System, DA-2 and DA-1 or separate panels comprising the Catwalk Control System?**
ANSWER: Under Review
23. **QUESTION: REFERENCE Drawing MP804. Is the Basement Control Panel one panel with a separate touch screens and modules for the Fuel Oil System, Boiler Feed water System, Condensate Storage and Transfer System or separate panels comprising the Basement Control System?**
ANSWER: Under Review
24. **QUESTION: REFERENCE Drawing MP804. Is the Main Floor Control Panel one panel with separate touch screens and modules for the Master Steam System, Gas System, Heating Water System, Heat Recovery System or separate panels comprising the Main Floor Control System?**

ANSWER: Under Review

25. **QUESTION: REFERENCE 23 09 11, Pg 65, 3.6 Time for startup and commissioning services is not stated. In order to correctly bid the time should be included in the specification. What time should be included for quotation?**

ANSWER: Under Review

26. **QUESTION: In reviewing the bid specification, I could not find any fuel specifications. In an effort to complete the boiler design, we would like to request fuel analysis for the biodiesel as well as the No. 2 and natural gas. The natural gas and No. 2 are usually a typical but the biodiesel may differ depending on where and how it is produced. Can you provide these fuel analysis?**

ANSWER: Under Review

27. **QUESTION: Duplicate: It appears that drawing numbers MP650, MP651, MP653 were not included in the posted zip files. Are these drawings available, and how can we access them?**

ANSWER: See Answer to Question 4

28. **QUESTION: Duplicate: Are drawings still to be issued? following drawings are on the index pages G002 but not in the set published MP 012,MP013,MP014 MP 650 thru MP 654**

ANSWER: See Answer to Question 4

29. **QUESTION: Duplicate: The following drawings are missing from our bid package: MP-012, MP-013, MP-014, MP-015, MP650, MP-651, MP-652, MP-653, MP-654, MP-800, and MP-807. Please provide a link so we can print these files**

ANSWER: See Answer to Question 4

30. **Question: Electrical one line ES500 shows genset to be 500Kw spec section 26 32 13 pg 8 2.1 Diesle engine generator set Letter C. asks for not less than 600Kw . Advise if you want 500Kw or 600KW**

ANSWER: Under Review

VA Battle Creek Boiler Replacement Project

31. **Question:** Due to the July 4th holiday weekend prior to the July 7th bid due date, is it possible to get an extension to the bid due date for the VA Battle Creek boiler project? A majority of the subcontractors and suppliers have an extended weekend celebrating the holiday prior to the bid and getting good competitive pricing by the 7th will be very difficult.

ANSWER: See Question #1

32. **Question:** Is it the intent to have the DDC controls for AHU-4 and associated zones, be an extension of the existing Automated Logic BACnet system that is currently throughout the campus?

ANSWER: Under Review

33. **Question:** Is it the intent to have the DDC controls as specified in 230923 be integrated into the Instrumentation & Control system (spec section: 230911)?

ANSWER: Under Review

34. **Question:** Is it the intent to have the Instrumentation & Control System as specified in 230911 be integrated into the existing Automated Logic BACnet system that is currently throughout the campus?

ANSWER: Under Review

35. **Question:** Drawing MP600 - Stack Economizer (SE); SE-2 rating of 1500-MBH (xfer) Is the B-2 Boiler capacity to be derated to ~15,000-pph (30-gpm) to accommodate this reduced sized economizer....?

ANSWER: Under Review

36. **Question:** Drawing MP600 Stack Economizer (SE); Feedwater T-IN (F) column Why is the feedwater temperature de-rated to 150 degF from the required Deaerator produced Feedwater temp of 227 to 250 deg F(5-15 psig)....?

ANSWER: Under Review

37. **Question:** Drawing MP802 Typical Boiler Control Panel – 2 Understood to be (1) Touchscreen GUI per boiler. Please explain the four (4) PLC & I/O units depicted for the Burner Management Controls...?

ANSWER: Under Review

38. **Question:** Drawing MP802 Typical Auxiliary Control Panel – 3 The provided detail relates to Boiler/Burner Control and not Auxiliary Control...? Please explain...is redundancy of control required for the boiler CCS...?

ANSWER: Under Review

39. **Question: Drawing MP802 Top right corner: “TO OTHER BLDG SERVICES REFERENCE DIV____ OR SEE SHEET____” What does this refer too...?**

ANSWER: Under Review

40. **Question: Drawing MP802 SCADA Gateway / Router Switch We have been unable to find a specific reference within the specification for this device. Can you please verify Division-section item number...?**

ANSWER: Under Review

41. **Question: Section 23 09 11 1.3.C ...The burner manufacturer shall be responsible for the burner management system.... Can this item be revised to include the control’s supplier in conjunction with the burner manufacturer...? This would allow for one (1) panel to be constructed to accommodate both the BMS & CCS built to NFPA85 compliance with a FM-UL approved BMS in-lieu of two (2) panels per boiler. This would simplify troubleshooting and isolation operations.**

ANSWER: Under Review

41. **Question: Section 23 09 11 2.1.A.3 Local control panels communicate internally over RS485 communications bus.... Based on Manufacturer, is it acceptable to communicate using RS485 internally, and all external communication is Ethernet; Laptop communication to panels is Ethernet allowing for greater flexibility, not RS-232; all Ethernet communications is TCP/IP, in-lieu of Modbus over Ethernet...? This eliminates the overall requirement for proprietary equipment utilization while allowing for greater flexibility of communication types....Applies to all sections with similar verbiage.**

ANSWER: Under Review

42. **Question: Section 23 09 11 2.1.B.2 and Section 23 09 11 2.1.F.4 NEMA ICS-6, Type 4 freestanding panels.... Aluminum case allowing entire enclosure to be rated NEMA 4X...Is the panel to be NEMA 4 painted interior & exterior or NEMA 4X...?**

ANSWER: Under Review

43. **Question: Section 23 09 11 2.1.G Annunciators In-lieu of additional hardware and complexity, is it acceptable to utilize the Touchscreen OIS to display all alarm conditions as well as log with alarm acknowledgement and reset...?> All safety and conditional devices will be connected to the BMS or CCS (or other control systems) allowing for accommodation of the operator fault awareness without the need for separation into another media...less spare parts, less training, less hardware, less complexity...Applies to all sections containing Annunciator verbiage.**

ANSWER: Under Review

44. **Question: Section 23 09 11 2.2.A.3.b Provide Separate dedicated controllers.... Verbiage relates to individual loop controllers versus PLC applications. Within a PLC, the loops are programmed and separate allowing for finite control of each element. Is this acceptable versus individual controllers...?> Case and point is utilization of a PLC such as manufactured by Allen-Bradley, Siemens, Modicon and the such. Applies to all sections containing similar verbiage.**

ANSWER: Under Review

45. **Question: Section 23 09 11 2.3.Q.10 ...Provide manually-actuated test circuits... Please explain intent more thoroughly...does this imply paralleling actuator switches with a manual switch; how is the switch insured to be in the proper position as thus to not defeat the safety circuit within the Master Fuel Trip Circuit...?.**

ANSWER: Under Review

46. **Question: Request for Extension of Bid due Date. We respectively request an extension be considered to the required bid due date of July 7, 2009, extended to July 24, 2009.**

ANSWER: See Question #1

47. **Question: What are the scheduled dates for the abatement work?**

ANSWER: Under Review

48. **Question: Will the abatement take place consecutively?**

ANSWER: Under Review

49. **Question: ACM is presumed to be internally located in the boilers, however no quantified amounts are available. Are there photos available, as well as the dimensions of the boilers??**

ANSWER: Under Review

50. **Question: Are boilers 1-3 to be included in our base bid for the abatement, dismantling, and proper disposal?**

ANSWER: Under Review

51. **Question: Will we need to include boilers 4 & 5 in our bid?**

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ANSWER: Under Review

52. **Question: What is the make and model of the boilers?**

ANSWER: Under Review.

53. **Question: Is the asbestos abatement contractor responsible for 3rd. party air monitoring during the duration of the project?**

ANSWER: Under Review

54. **Question: Are the boilers constructed of cast iron?**

ANSWER: Under Review

55. **Question: Could you make the Bill of Materials for the piping available on a "For Information Only" basis?**

ANSWER: Under Review

56. **Question: With the extended bid date - is there another chance for an additional walk-through?**

ANSWER: Under Review

57. **Question: What Leed accreditation is the VA trying to achieve, Gold, Silver, etc.**

ANSWER: Under Review

58. **Question: Reference Page 15 of 45 Item 2.2.1.3 Reps & Certs Calls for Section 00600 - insert the required certifications and representations. There is no Section 00600.**

ANSWER: In solicitation W911XK-09-R-0010, the referenced page is 16 of 69. Section 00600 Representations & Certifications is pages 32 of 69 thru 36 of 69.

59. **Question: Will the owner be responsible for all material testing?**

ANSWER: Under Review.

60. **Question: Will the owner be responsible for all layout/survey or will it be the responsibility of the General Contractor?**

ANSWER: See FAR Clause in Section 00700 of the solicitation, 52.236-17 Layout of Work

61. **Question: Reference Sheet MP200.3. It calls for Overhead Trolley Reference Structural. Structural Drawings show no Overhead Trolley steel. Please clarify?**

ANSWER: Under Review

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62. **Question: I am trying to get a clarification on the type of enclosure needed for the Automatic Transfer Switches. The spec says refer to the drawings, and the drawings have no mention of which NEMA Type enclosure is required.**

ANSWER: Under Review