

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			BPA NO.		1. CONTRACT ID CODE		PAGE 1		OF PAGES 11			
2. AMENDMENT/MODIFICATION NO. A00003			3. EFFECTIVE DATE 05-14-2014		4. REQUISITION/PURCHASE REQ. NO.			5. PROJECT NO.(If applicable) 660-14-130				
6. ISSUED BY Department of Veterans Affairs Program Contracting Activity Central 6150 Oak Tree Blvd, Suite 300 Independence OH 44131			CODE PCAC		7. ADMINISTERED BY (If other than Item 6) Department of Veterans Affairs Program Contracting Activity Central 6150 Oak Tree Blvd, Suite 300 Independence OH 44131			CODE PCAC				
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) To all Offerors/Bidders					(X)		9A. AMENDMENT OF SOLICITATION NO. VA701-14-B-0111					
							9B. DATED (SEE ITEM 11) 05-14-2014					
					X		10A. MODIFICATION OF CONTRACT/ORDER NO.					
							10B. DATED (SEE ITEM 13)					
CODE			FACILITY CODE									
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS												
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified. May 28, 2014 @ 2:00 PM												
12. ACCOUNTING AND APPROPRIATION DATA (If required)												
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.												
(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.												
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).												
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:												
D. OTHER (Specify type of modification and authority)												
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> (ONE) copies to the issuing office.												
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) This amendment provides the following: 1) The bid submission date has been extended to May 28, 2014 at 2:00 PM. 2) Responses to the technical questions received have been included on page 2. 3) Reference Addendum 2 attachments - Addendum No. 2 - 05-09-2014 and ADDENDUM 2 Drawings - 5-9-2014. All other terms and conditions of the solicitation and attachments remain the same.												
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.												
15A. NAME AND TITLE OF SIGNER (Type or print)					16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) John Yallech, Jr. Contracting Officer							
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)				15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)			16C. DATE SIGNED			
NSN 7540-01-152-8070 PREVIOUS EDITION NOT USABLE											STANDARD FORM 30 (REV. 10-83) Prescribed by GSA - FAR (48 CFR) 53.243	

CONTINUATION PAGE

VA Responses to Technical Questions #01

1. Spec Section 48 20 10-29 B. Operational Tests, will the VA provide the onsite UL inspector or will this be the contractors responsibility.

VA RESPONSE: **The contractor's responsibility.**

2. Spec Section 48 20 10-31 3.3, Concerning the 45 day continuous run, will the contractor or sub-contractor be required to be onsite continuously during this period.

VA RESPONSE: **No.**

3. Spec Section 48 20 10-31 3.3, what is the criteria to determine a "fault"?

VA RESPONSE: **The term "fault" is generically used to describe any functional problem, indication error, communications loss, or operational equipment state that is not considered normal operational conditions per the manufacturer's recommendations.**

4. CS-001 note 12 indicates that the contractor is responsible for permits.

- a. Being a federal project on federal property is this project subject to any local jurisdiction for building permits?

VA RESPONSE: **No.**

5. MD-121 Key note 1 says "turn equipment over to Owner and dispose of demolished materials properly"

- a. Where will the equipment need to be moved to turn over to the Owner?

VA RESPONSE: **Storage yard adjacent to building 38.**

- b. What is the weight of the rotoclave?

VA RESPONSE: **17,000 lbs excluding piping, valves etc.**

- c. What is the weight of the grinder?

VA RESPONSE: **20,000 lbs**

- d. Has there been a hazardous material survey done? Is there hazardous material that will be disturbed by the demolition?

VA RESPONSE: **Hazardous materials surveys and remediation have been completed in the past. There are no known hazardous materials that will be disturbed by the demolition.**

6. MP-601 CH-1

- a. The specified absorption chiller "Kawasaki model KMZL-225M" appears to be manufactured in Japan and does not meet the buy America act, please advise on a unit that meets buy America act.

VA RESPONSE: AMEC researched absorption chillers from several manufacturers, including American manufacturers such as Trane, York, and Carrier. No American built absorption chillers were found. All of the manufacturers contacted sourced absorption chillers manufactured in other countries. Refer to clauses FAR 52.225-11 and VAAR 852.238-89 for further guidance.

7. Is there a bond on the roof of Building 6 and do we need to work with a specific roofer to maintain the bond? If so, who is the roofer?

VA RESPONSE: No bond on the roof of building 6.

8. Do we need to anticipate asbestos in the buildings we will be working in? If so, how do you plan to handle the abatement, will the contractor be expected to hire the abatement contractor or will the Salt Lake City VAMC manage abatement?

VA RESPONSE: No known asbestos. See response to question 5d above. If any is found, asbestos will be handled by the VA.

9. According to Section 48 20 10-2, the COR will identify an entity to schedule and coordinate a Commissioning Team to implement the Commissioning Process. Please explain the scope as well as the role of the prime contractor, trades contractors and the equipment manufacturer in this process. Will this include all equipment and controls?

VA RESPONSE: Coordinate and provide access to government supplied third party commissioning contractor. Requirements for trade contractors are specified in the general commissioning specification and the commissioning specification in each division.

10. According to Section 48 20 10-3, "The Contractor shall demonstrate that they have successfully installed at least four projects that, in the aggregate, equal or exceed the size of the proposed project. References shall be provided for each of these projects." Who does this requirement apply to, the prime contractor, the electrical contractor, the equipment manufacturer, the mechanical contractor, other trades contractors? How/when do we supply the required references?

VA RESPONSE: Section 48 20 10-3 "1.4 Quality Assurance A" shall be removed in its entirety.

Are contractors required to be licensed in the State of Utah to perform work on this project?

VA RESPONSE: No.

11. Is a construction fence required on this project and if so, where is it to be located?"

VA RESPONSE: Yes, around the work being done at the transformer and cooling tower. See drawing CS-102.

12. There are a number of references to a "resident engineer" in the specification. Please explain that person's role on the project.

VA RESPONSE: Replace with COR.

13. Who is to perform 3rd party testing and inspections (soil compaction, concrete, welds, etc.), the contractor's vendor or a VA vendor?

VA RESPONSE: VA will be supplying testing as outlined in the specifications.

14. How is the existing rotoclave unit and associated equipment to be disposed of? Is it to be reused or demolished for scrap? If it is to be reused, who is to disassemble and prepare for transport? Who is to transport? What is the role of the contractor?"

VA RESPONSE: Rotoclave shall be removed from building 6 and stored on site by the contractor.

15. Is there a protocol for testing the MV feeders?

VA RESPONSE: Per Section 260513 and all applicable codes and standards.

16. Will an additional manhole be required at the connection between the existing conduit and the new conduit (plan east of Whalen Way)?

VA RESPONSE: No

17. Several contractors have asked me to provide pricing on the vortex flow meters and turbine flow meters specified in this solicitation. In order to do that I need application data. I wasn't sure how to obtain that information. Can you provide me with application data, i.e. flow, line size, flow range, operating temperature, operating pressure, output needed... or do they have to get that for me?

VA Response: The flows are listed with the associated equipment and the line size is as indicted on the plans. Please refer to MP-501 and MP-502 for flow meter locations. The pressure required is as listed for the associated equipment. For example, the steam flow meter is associated with HRSG-1, and is listed as FT-1 (Flow Transmitter 1) on MP-501. This pipe is also shown on floor plan MP-121 and labeled as 4 inch. The flow rate and pressure is listed on the mechanical schedule MP-602. Use a similar procedure for determining these criteria for the absorption chiller CH-1 and the heat recovery hot water from HX-1.

18. Who installs the VFD's

VA Response: The contractor shall furnish and install all VFD's.

19. There is no Type C fixture on the fixture schedule. Please clarify what type and manufacture is required.

VA Response: Fixtures indicated as Type C on plans shall be Type BE as scheduled on Sheet E-601.

20. Who supplies and install the Generator?

VA Response: The General Contractor is ultimately responsible. It can be purchased installed by one or more of his subcontractors.

21. What size man whole is required for the underground electrical wiring?

VA Response: See sheet CS-502 and other civil plans per ES-101, Note 2

22. The switch gear section 6NMPGB on the drawings asked that we provide a new breaker with the same AIC rating as those already installed. The problem is that the existing breakers all have different AIC ratings. Please clarify what AIC rating is required for the new breaker.

VA Response: The new breaker shall match the existing AIC rating of the switchgear main overcurrent protection device. No series rated combinations shall be accepted.

23. The note for the new 15kv cabling only gives a cable count of one. I assume this is meant to be a 3 phase 3 conductor lay out. Please clarify. Also the drawings only call out 1/0 conductor and a 4/0 ground. The 1/0 conductor even if it is a three phase set up will not handle 600 amp. Please clarify that you in fact do want a 1/0 conductor size for the 15kv cabling.

VA Response: Provide per plans. New MV feeder is 15kv cable is 1 each, per phase as noted, sized for 200A trip settings specified on EP-651. 600A equipment is the smallest frame size available in this equipment class.

24. M-001/ General Notes: 1 & 2 –Will we be required to “Enclose” the new HWS & HWR in the laundry area?

VA Response: No enclosure is required on the pipes in the laundry area.

25. What is the status of the piping configuration on the piping coming out of the tunnel to the mechanical room in bldg. 7?

VA Response: The piping layout in the boiler room basement (shown on MP-112), building 7 mechanical room (shown on MP-113), the laundry mechanical room (shown on MP-113), and the animal lab mechanical room (shown on MP-122) will be revised in addendum 2 to clarify the routes through the congested areas.

26. Is the tunnel going to be cleaned before work begins?

VA Response: No.

27. What are the working hours for the Laundry area? Regular, Swing, Night?

VA Response: 7-3 Monday – Friday. Installation work associated with this project can and should be scheduled when the laundry is not active, to minimize disruption to the VA.

28. Are there any “AS BUILT” drawings, SB-101 Detail note F1/S-501 shows an existing footing under the existing slab.

VA Response: Jeff – See note 5 on SB-101 and 6 on SF-101 for existing building record drawing information.

29. Specification Section 48-20-10.1.2.H.2 and Section 48-20-10.2.G. 2. Provide a complete schedule of normally required inspection, preventative maintenance, predictive maintenance, and overhaul tasks and the outage hours required for all of the equipment and auxiliary systems supplied under the work of this contract, plus replacement parts associated with each task. Provide inspection and maintenance plans required to support the performance and minimum on-line availability specified herein. List requirements by year with a list of recommended spare parts for each through one entire overhaul cycle. G. Maintenance service for a five year period following acceptance of the CHP system by the VA.

Question: As there is a five year maintenance proposal being requested, how is the proposal to be prepared when the expected duty cycle is to operate the CHP plant at partial load for an undetermined length of time during the five year maintenance plan?

VA Response: The five year maintenance requirement was removed from this contract as specification item 2 in addendum number 1. Only one year of maintenance is now required, during the project warrantee period.

30. Specification Section 48-20-10.2.2.B.11 Starting System, including air motor, air compressor, and compressed air storage tank with capacity in accordance engine manufacturer's specifications.

Will a DC electric starting system be acceptable in lieu of an air starting system for the CHP generator?

VA Response: Yes. The starting system is engine manufacturer specific.

31. Section 48-20-10.2.3. Performance Guarantees

Question: Are the performance guarantee data listed in the specifications based upon the nominal nameplate rating of the generator used as the basis of design at sea level and 77 F, or at the derated power availability based upon the site elevation and expected ambient conditions?

VA Response: At the actual site elevation and ambient conditions. Note that the intake air is conditioned so combustion air temperature falls between about 40°F – 80°F. Detailed information about combustion air temperature control is specified in the sequence of operation on MI-601.

32. Question 4)

Section 48-20-10.2.3.C Emissions of the noted pollutants for the CHP facility specified herein shall be guaranteed not to exceed the following tables for the described load conditions. If no value for a pollutant is given in the tables below, the emissions shall comply with local, state and federal emission limit requirements.

Question: Please clarify the responsible party to apply for and secure the air quality permit with the local AHJ?

VA Response: It is the VA's responsibility.

Question: Please clarify the responsible party to be responsible for performing on site emissions verification testing?

VA Response: The engine manufacturer shall supply the air emissions equipment and provide a certification that the equipment will meet the emissions performance standards in the contract documents. If this is not provided the contractor will be responsible for performing the necessary testing at no additional cost.

Question: Please confirm whether or not the site has an existing air permit and total emissions levels currently permitted?

VA Response: The site does have an existing air permit. The total emissions levels in the existing air permit are not adequate to allow for the engine to be located at the site. An application for an air permit modification is required to address the proposed emissions increases.

Question: Please confirm that the emissions level data listed in the specifications are for design purposes only?

VA Response: The engine and emissions control systems must be designed and operated to maintain emissions below the maximum levels listed under all expected operating conditions.

33. Section 48-20-10.2.4 Reciprocating Engine Generator B. The reciprocating engine generator packages shall be designed for automated, continuous duty electric power generation over the range of 1325 to 2650 KW at the project site elevation of 4,500 feet above sea level.

Question: Please provide the total load interval data for the hospital that would provide a clear understanding of the highest and lowest kWe load profiles and the hours of the day when occurring?

VA Response: We do not have this level of detailed information, and it is not necessary to comply with the contract requirements. The data we have seen indicate that the VA Campus uses more electricity than the electrical output from the CHP except for short periods of time during the night in the spring and fall. We do not anticipate that the engine will have to run at reduced power for long periods of time.

34. Section 48-20-10.2.4 Reciprocating Engine Generator D. The package shall be designed for indoor installation with indoor temperatures between 45 degrees F and 100 degrees F.

Question: Drawing MI-602 clearly defines the operating air temperature settings for the acoustical generator room at 75 F and details the swamp air cooling system operation. What is the purpose of having such a large range of operating temperature for the generator?

VA Response: The actual room temperature and the temperature setpoint are not the same thing. The desired room temperature is 75°F, but during a design day when outside air temperature reaches 102°F, the evaporative cooling units can only cool the outside air to 75°F (as listed in the ECU schedule). The enclosure ventilation system is designed for a 25°F temperature rise to absorb radiated heat from the engine and generator before being exhausted, resulting in portions of the room rising as high as 100°F. The minimum temperature is a transient condition, that may occur for short periods of time during engine startup.

35. Section 48-20-10.2.4 Reciprocating Engine Generator E. The unit shall be synchronized to the existing utility grid. The unit governor response time shall be rapid enough to allow stand-alone operation. Controls and operation shall be suitable for operation in parallel with the utility electrical grid, and as a stand-alone emergency generator.

Drawing EP-661 Electrical Distribution Sequence of Operation Utility Power Outage (Island Mode) 4.

Switchgear monitors campus demand and initiates load shedding if demand exceeds CHP output by opening the breaker to loop D1.

Question: While there is a brief sequence of operation listed on Drawing EP-661 under Electrical Distribution Sequence of Operations, please provide the minimum and maximum expected load shed power level for the load shed sequence and the list of listing the specific plant loads that will not be powered during a utility outage and the step by step interval identifying each load to be de-energized or emergency power or island mode operation?

VA Response: Provide per the sequence of operations. There is only one load shed step, Loop D1

36. Specification 48-20-10 2.4.G.c Reciprocating Engine Generator c. Temperature of ambient plant air for design & performance purposes: 77 degrees F.

Question: If the design parameters list 77 F as the temperature of ambient plant air, is this not in conflict with Section 48-20-10.2.4.D?

VA Response: No. The design temperature is not intended to represent all conceivable operating conditions. Combustion air is delivered to the engine directly above the air intakes. Combustion air temperature is controlled by the Evaporative Cooling Units. Combustion air temperature will rise a little above the supply air temperature from the ECUs, but should stay well below the exhaust air temperature.

37. Specification 48-20-102.4.G.3.f Reciprocating Engine Generator f. Continuous rated for grid parallel prime power (non-emergency)

Question: If the base design criteria is for continuous duty and not emergency power, please provide the expected maximum allowable voltage dip and frequency dip % based upon the cycling of connected loads during the proposed island mode operation and no utility source is connected.

VA Response: During island mode the number 1 priority of operation is the chiller plant. However, the

chiller plant is at the physical end of an electrical loop so the entire loop must be energized including all buildings on that portion of campus to achieve this end. Therefore, island mode CHP performance must at a minimum allow for full function of all loads on this loop including the chiller plant. Voltage and frequency stability shall be maintained within operational conditions of the chiller and the metal clad switchgear which manages all sources such that island mode function is provided as described.

38. Specification 48-20-10.2.4.G.14 Reciprocating Engine Generator

Maintain temperature rise of system components within required limits when unit operates at 100 percent of rated load for 2 hours with ambient temperature at top of range of ambient conditions specified herein.

Question: Since the acoustical room and swamp coolers are to maintain the CHP generator room air at 75 F, is the generator expected to

maintain 100% of rated load without the aid of the swamp cooling system?

VA Response: No. The swamp cooling system is required. The swamp coolers deliver 75°F air at design outside air conditions, the air absorbs heat from the engine, and air is exhausted at 100°F. Therefore the room temperature will vary from 75°F near the supply air up to 100°F at the exhaust.

39. Specification 48-20-10.2.9.A Post Combustion Emissions Control System

Post-combustion emissions control systems shall be provided to ensure that the criteria pollutants at the stack are within the specified permit limitations at all operating conditions.

Question: Please provide clarification of the existing site air quality permit levels to be maintained.

VA Response: The project will increase potential emissions at the site, and the future permit will reflect this emissions increase. The emissions increase is such that the facility will not be required to purchase offsets and the engine will meet UTDEQ BACT requirements. An oxidation catalyst will be included as a post-combustion emissions control system.

40. Section 48-20-102.9A.2 Post Combustion Emission Control System The engine control shall be programmed to provide emissions with no more than 0.50 grams of NOx per brake horsepower hour (bhp-hr).

Question: Please clarify if the 0.5g NOx level is the design criteria and not final NOx levels required by the existing air quality permit.

41. **VA Response: The 0.5 g/bhp-hr emissions for NOx will be the final NOx level required by the future air permit for the engine specifically. The existing air permit does not list the unit. The use of 0.5 g/bhp-hr allows us to demonstrate that SCR is not required for post-combustion control of engine emissions.**

42. Section 48-20-10.2.13.B.4 Electrical General Requirements

4. Provide critical power systems as required for the plant including life safety equipment.

5. Provide control for stand-alone operation to allow the CHP plant to provide backup power in the event of loss of utility power (Island Mode).

Question: Please clarify that the duty cycle of the CHP generator is for continuous duty and not provide emergency power to life safety equipment under NPFA 110, Level 1 requirements; which require 10 second start and 100% load acceptance in a single step. Also, are there life safety equipment loads located on the distribution bus that are intended to be powered by the CHP generator during a utility failure?

VA Response: CHP engine generator is to be designed primarily for continuous duty and will normally be running all the time. It is not the intent to require a rapid start and full load acceptance in a single step.

43. Drawing MP501

The engine oil cooling circulation loop is indicated as passing thru HX-2 and returning back to the engine. The engine jacket water cooling loop return is shown to pass thru the opposite side of HX-2. Question: Will this not add unnecessary heat rejection into the jacket water inlet to the engine and cause a performance issue if the jacket water return temperature is higher than the manufacturer data sheet values?

VA Response: No. The oil cooler (HX-2) is designed to be in series with the engine jacket. The cooling loop is design to reject enough heat (through HX-1 and DC-1 and DC-2 as needed) at 400 GPM to lower

return fluid temperature to 172°F. Cooling fluid rises to 178°F after absorbing heat from the oil (see HX-2 in the schedule on MP-601), which is the recommended return air temperature for the basis of design engine.

44. Drawing M-001 GENERAL NOTES 1. and 2. Which rooms are considered finished, with regards as to concealing the piping.

VA Response: Corridor 1A00H and Vestibule 1A001 between the generator mechanical room and the boiler control room have suspended acoustic tile ceilings that will be reinstalled after installation of the new piping.

45. Drawing MP-113 comment E7. How much piping needs to be offset and relocated?

VA Response: The piping layout in the boiler room basement (shown on MP-112), building 7 mechanical room (shown on MP-113), the laundry mechanical room (shown on MP-113), and the animal lab mechanical room (shown on MP-122) will be revised in addendum 2 to clarify the routes through the congested areas.

46. Drawing MP-121 and MP-501. What is the size of the GS/R lines are connected to CT-1 from the generator?

VA Response: 4 inch.

47. Drawing MP-502. What size are the branch HWS and HWR lines between CH-1 and the main 6" line?

VA Response: 5 inch.

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48. Specification 23-60-00 section 3.2-C. Calls out specification 23 23 00. Will the VA be providing this specification?

VA Response: Specification 23-64-00-Packaged Water Chillers is for the absorption chiller only, which does not have external refrigeration piping. Therefore there is no refrigerant piping specification 23 23 00. Paragraph 3.2C in 23-64-00 will be deleted in addendum 2.

49. Specification 23-22-13 section 2.5.-D.-1.-b.-1). Calls for "1" factory installed bypass with globe valve on valves 4" and larger valves". Is this requirement still valid? If so please provide detail as to placement of bypass, that includes orientation, and which boss connections are to be used.

VA Response: Yes, the requirement is valid. The 1" globe valve is used for warm-up after a shut down. It should be installed above or on the level with the gate valve to avoid condensate collection. These are already in place at the steam header. The valve in the 4 inch HPS from HRSG-1 shall be a stop-check valve and does not need the bypass.

50. Are there specifications for the GS/GR, CW/DW, CHWR/CHWS, HWS/HWR, and Lube Oil piping?

VA Response: Yes. GS/GR, CW/DW, CHWR/CHWS, HWS/HWR are specified in 23 21 13, issued in addendum 1. Lube Oil piping, lube oil fill and vent piping, and starter compressed air piping shall be schedule 10 stainless steel, installed in accordance with engine manufacturer's recommendations. Lube oil drain shall be schedule 40 steel.

51. ACV valves 1-4 are only shown on MP-501. Please provide location on a plan drawing.

VA Response: ACV-2 and ACV-4 are two position drain valves that should be located next to the evaporative cooling units on the roof. ACV-1 and ACV-3 are 2 position fill valves that should be located on the domestic water supply to each ECU just under the roof. This piping will be shown on MP-121 reissued with addendum 2.

52. Drawings MP-501 and MP-121 show different number of valves on the HPS line. Which drawing is correct?

VA Response: MP-501 is correct. The existing valve indicated on MP-121 at the connection of the new 4" HPS to the existing 6" HPS is too small and should be removed during demolition.

53. Drawings MP-501 shows a 2" BFW and MP-121 shows a 1" BFS. Which one is correct, or is there an additional one not showing on each drawing? Drawings MP-112 and MP-111 show the boiler feed as a 1" line, is this correct?

VA Response: The new boiler feed line is 1 inch throughout. On MP-501, the 2" BFW pipe should be labeled 1" BFS, and the pipe type should be BFS, not BFW.

54. Drawings MP-501 and MP-121 show the boiler blow down running over head. Is this correct?

VA Response: Yes. Run overhead.

55. Drawings MP-501 or MP-502 do not show AC-1 or the compressed air line, please provide additional detail including any valves or gauges.

VA Response: MP-121 shows the compressed air line and AC-1. These are for starting the engine only, and are not otherwise part of the process, so are not shown on the process piping diagrams.

56. Drawing MP-121, Note 2 states to provide drain connection and vent to exterior. Who is to provide the LOS and LOR piping from the supply tank?

VA Response: The general contractor shall determine who provides each pipe. The lube oil piping shall be installed in accordance with engine manufacturer's instructions by the engine manufacturer's technicians, the mechanical contractor, or other sub as determined by the GC. The basis of design engine uses a transfer pump provided by the engine manufacturer to automatically transfer oil from the lube oil supply tank to the engine when needed to maintain the proper engine lube oil level. Other engine manufacturers may use a different system, which shall be incorporated into the installation per the manufacturer's recommendations.

57. Drawing MP-501 indicate the LOS and LOR pipe run under ground. Is this correct?

VA Response: No. These are shown below the engine for clarity. The LOS and LOR piping between the engine and HX-2 shall be run overhead minimum 7 feet ± above the floor to allow clearance for service without ducking under the pipes. The GS and GR to HX-2 and HX-1 shall also be run overhead minimum 7 feet ± above the floor.

58. Drawing MP-501 has HX-1 and HX-2 shown with 5" unions. Can these be flanges?

VA Response: Yes. On the symbol legend on M-002, the union symbol is labeled to indicate that it is either a union or a flange. Specification 23 21 13 – Hydronic Piping, paragraph 2.3 – Fittings for Steel Pipe - specifies the use of flanges on piping 2-1/2 inch or larger, and unions on pipe 2" and smaller.

59. Drawing MP-112 has a MATCH LINE referencing drawing MP-110, that doesn't exist. Is this correct, or should it be referencing MP-111?

VA Response: MP-110 is incorrect. The reference should be MP-111. This will be corrected in Addendum 2.

60. Drawing M-102 Storage solution room 18208 in building 7 refers to drawing F2/MP-112. Is this correct or should it be referencing MP-113?

VA Response: This reference should refer to F1/MP-113.

61. Drawing MP-501 and MP-121 show different piping schematics, which one do we use for bidding?

VA Response: MP-121 is a floor plan, MP-501 and MP-502 are schematics. The two drawings are intended to agree. Generally, connections between equipment are shown on MP-501, 502, and location of the piping is shown on the floor plans. Some inconsistencies have been identified that will be corrected in Addendum 2.

62. The 3/4" CW line going to CT-1 shows tie - in point 4, where does this line come from?

VA Response: On drawing MP-121, key note 4 says to "Connect to Existing DW above with ACV-6". There is a domestic water line that runs overhead next to the existing MP steam pipes. The fill to CT-1 shall be connected to this DW pipe. The ACV is incorrectly labeled on the plan as ACV-7. This will be corrected to ACV-6 in Addendum 2.

63. ACV-7 valve is a drain valve, should this be ACV-6?

VA Response: Yes. ACV-6 is on the DW fill piping, ACV-7 is on the drain piping. This will be corrected in Addendum 2.

64. Drain line from CT-1 should have ACV-7 as per MP-501?

VA Response: Yes.

65. Are the DW and CW the same line?

VA Response: The domestic water pipes are labeled as DCW (Domestic Cold Water) and DHW (Domestic Hot Water). CW is the same as DCW.

66. Is this the same line that runs to the emergency shower and eyewash station?

VA Response: A new 1-1/2" CW line from the boiler room basement enters the generator room near pump P-7B. From there, it splits into a 1-1/2" branch to feed CT-2, and a 1-1/4" branch that runs high near the roof over to the eye wash station, where it enters the mixing valve called out in key note 1. Hot water supply to this mixing valve comes from the DHW line above the eye wash that serves the existing sink next to the eye wash.

67. How is it routed through the CHP room to the ECU's?

VA Response: The existing DCW line runs overhead under the roof to a hose bibb at the northwest corner of the generator room, as shown on MP-121. Also see the response to questions 8 and 19 above.

68. Is there a valve list that states the type of valve they would like?

VA Response: No. Valves shall conform to the specifications and must be submitted for approval during construction.

69. If we include construction material from “designated countries” are we still required to provide a “listing of specific foreign construction material” in accordance with 4.26 (c) or does clause 4.26 (c) apply to foreign material from non-designated countries????

VA Response: Yes, please follow the guidance from this clause as well as the definitions in FAR 52.225-11.

70. Reading over the solicitation and specification, I didn’t read anything in regards to this project being tax exempt. Can you please tell me if this project is tax exempt on material, labor, or both?

VA Response: The contractor is to provide all pricing that includes all applicable taxes. Please refer to FAR Clause (By-Reference) 52.229-3 “Federal, State, and Local Taxes.”