

Boiler Plant Replacement  
Solicitation No. VA244-15-R-0630  
Bidder Inquiries

No.	Dwg. / Spec.	Location	Comment	Reviewer	Harrell Design Group Response
001	AE100		There is no specification section for the pre-manufactured shed shown on drawing AE100. Please advise.	Architectural	Add Note to F2 on AE100 to for basis of design Alan's factory outlet or approved equal. Contractor shall provide stamped and signed drawings for approval and provide anchoring for wind loads in Erie PA.
002	MP105		Drawing MP105 note 10 says to refer to drawing MP702 for all piping and valving for Cooling Towers. There are no cooling towers shown, is this note a mistake?	Mechanical	Revise Keynote 10 on MP105 to reference surge tank, not cooling towers.
003	23 21 11		Spec section 23 21 11 – 32 H. Nondestructive examination of welds 1. States that the COR <b>MAY</b> require up to 10% of the welded joints to be examined using radiographic testing. Who is responsible for the cost of x-ray testing? Will this testing be required? Our welders are certified thru the local union.	Mechanical	Yes, testing is required per 23 21 11. Contractor shall be responsible for any costs associated with testing.
004	M001		Drawing M001, note # 19 since we are responsible for any steam traps on riser if not shown, is there an allotment of quantity we should include in our proposal? It is very difficult to determine until the coordination's drawing are 100% completed.	Mechanical	Steam traps shall be provided as detailed in the MP100, MP300 and MP500-series drawings. Quantities shall be based upon risers shown in construction documents.

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005	M001		Drawing M001, note 26, where can we get the VHA boiler plant safety testing manual 3rd edition?	Mechanical	Add note to Keynote 26 on M001. "VHA Boiler Plant Safety Testing Manual is available online (e.g. <a href="http://www.vendorportal.ecms.va.gov">www.vendorportal.ecms.va.gov</a> ) A user account will need to be requested if the contractor does not already have one."
006	M001		Drawing M001, note 28, all traps to have we did not see those listed on the boiler control points drawings either on the base or alt. #5 drawings, are they required?	Mechanical	Steam traps shall be provided as detailed in the MP100, MP300 and MP500-series drawings. Quantity shall be based upon risers shown in construction documents.
007	MP601		MP601, Fuel Gas/Feedwater Heat Exchanger Schedule. Unable to find heat exchanger in specifications	Mechanical	Reference specifications 23 52 39, Section 2.5.
008	Division 23		Division 23 does not include a specification for the gas fired make up units.	Mechanical	As stated on the schedule on MP602, Reznor or approved equal will be the basis of design.

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009	MP603		Drawing MP603: Variable Refrigerant Air Conditioner Schedule. Please provide piping schematic with line sizes from 7B-SSCU-5 to the associated (5) 7B-SSAH units.	Mechanical	Lines sizes will be as specified by manufacturer's requirements per specification 23 23 00, section 1.1.B. Piping schematic and coordination drawings shall be provided by contractor as part of submittal process (23 23 00, section 1.4.B.2)
010	MP102 & MP103		Description of exterior louvers as shown on mechanical plans MP102 & MP103, Louver With Wall Mounted Motor, infers that these are either combination louvers or operable louvers which should be furnished by the general contractor in accordance with specification section 089000. If in fact these are nothing more than stationary louvers furnished by the general contractor, will the mechanical contractor be required to furnish a motorized damper for each louver? If so, please provide a specification and damper schedule.	Mechanical	On MP102 and MP103, replace all notations for the word "Louver" to "Damper". Control requirements are detailed on sheet MP703/704 See 23 09 23, 1.1.E and 2.14 for further requirements on dampers. For sizing information for louvers see sheet AE601.
011	MP301		Drawing MP301: Shows a MPDA-3. There is no schedule or detail showing what sizes and traps are required for the Medium Pressure Drip Assembly.	Mechanical	Revise MP301 to remove all references to MPDA-3. There are no MPDA's on this project.

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012	MP103		Drawing MP103: There is a 4" HPS Line near the Mezzanine #201. There is a 2" HPS take-off from the 4" main. The 2" line reduces down to a 1-1/2" HPS. What does the (2) symbols represent in the 1-1/2 line with the 7B-VFM6?	Mechanical	MP103 revise to remove 2" HPS take-off from the 4" main near mezzanine #201.
013	23 07 11		In reference to section 230711, 3.2, A.3.D, weatherproofing for exterior duct insulation. Would Venture Clad 1577CW or .016" aluminum jacketing be accepted in lieu of vapor barrier mastic and re-enforcing mesh specified?	Mechanical	Ductwork insulation shall be installed as detailed in project specifications. Per paragraph 3.1.H of 23 07 11 aluminum jacketing is required for all exterior insulation. This is in addition to other requirements.
014			There is a number of piping systems that are normally insulated in boiler plants, but are not specified on this project; PC & PCR- Condensate Pump Discharge and Return, FWPD & S - Feedwater Pump Discharge and Suction, CTPD and CTPS - Condensate Transfer Discharge and Suction, BO - Boiler Blowoff, CBD - Continuous Blowdown. Do any of these systems require insulation?	Mechanical	All condensate piping is covered under the definition of "PC – pumped condensate". Section 3.3 details insulation for feedwater applications and section 3.8 contains the piping insulation schedule.
015	MP102		After looking at Drawing MP102 it appears that the FWPD feed the CF - Chemical Feed Lines. Will the CF piping require insulation then being that hot water is feeding it?	Mechanical	Per section 3.1.K, chemical feed piping does not require insulation.

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016	23 07 11		In reference to section 230711, 3.2, A.6, Hot Equipment Insulation. There is no mention of insulation for Dearetor Tank 7B-DEA1, Flash Tank 7B-FT1, Flash Tank Economizer 7B-EC01 or Blowdown Tank 7B-BDS1. Do these items require insulation?	Mechanical	See section 230711 3.5 for tank insulation requirements.
017			Please supply the following photos: Existing Boiler Room – Basement, 1 <sup>st</sup> Floor, Mezzanine, Roof, and where fuel tanks are being buried.	VA	Requested photos supplied via attachment.
018	M001		Drawing M001, note # 19 since we are responsible for any steam traps on riser if not shown is there an allotment of quantity we should include in our proposal it is very difficult to determine until the coordination's drawing are 100% completed?	Mechanical	Steam traps shall be provided as detailed in the MP100, MP300 and MP500-series drawings. Quantity shall be based upon risers shown in construction documents.
019	M001		Drawing M001, note 28, all traps to have I did not see those listed on the boiler control points drawings either on the base or alt.#5 drawings are they required?	Mechanical	Per note 26 on M001, provide trap monitors.
020	MP101 & MP102		Drawing MP101 and MP102, Sheet Keynote #8 & 14. Please verify that the trenches and removable grating are provided by others.	Mechanical	Trench drains are required for this Project. See SS101 and SS200.
021	MP601		MP601, Fuel Gas/Feedwater Heat Exchanger Schedule. Unable to find heat exchanger in specifications.	Mechanical	Reference specifications 23 52 39, section 2.5.

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022	Division 23		Division 23 does not include a specification for the gas fired make up units.	Mechanical	As stated on the schedule on MP602, Reznor or approved equal will be the basis of design.
023	MP603		Drawing MP603: Variable Refrigerant Air Conditioner Schedule. Please provide piping schematic with line sizes from 7B-SSCU-5 to the associated (5) 7B-SSAH units.	Mechanical	Lines sizes will be as specified by manufacturer's requirements per specification 23 23 00, section 1.1.B. Piping schematic and coordination drawings shall be provided by contractor as part of submittal process (23 23 00, section 1.4.B.2)
024	MP102 & MP103		Description of exterior louvers as shown on mechanical plans MP102 & MP103, <b>Louver With Wall Mounted Motor</b> , infers that these are either combination louvers or operable louvers which should be furnished by the general contractor in accordance with specification section 089000. If in fact these are nothing more than stationary louvers furnished by the general contractor, will the mechanical contractor be required to furnish a motorized damper for each louver? If so, please provide a specification and damper schedule.	Mechanical	On MP102 and MP103, replace all notations for the word "Louver" to "Damper". Control requirements are detailed on sheet MP703/704 See 23 09 23, 1.1.E and 2.14 for further requirements on dampers. For sizing information for louvers see sheet AE601.

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025	MP301		Drawing MP301: Shows a MPDA-3. There is no schedule or detail showing what sizes and traps are required for the Medium Pressure Drip Assembly.	Mechanical	Revise MP301 to remove all references to MPDA-3. There are no MPDA's on this project.
026	MP103		Drawing MP103: There is a 4" HPS Line near the Mezzanine #201. There is a 2" HPS take-off from the 4" main. The 2" line reduces down to a 1-1/2" HPS. What does the (2) symbols represent in the 1-1/2 line with the 7B-VFM6?	Mechanical	MP103 revise to remove 2" HPS take-off from the 4" main near mezzanine #201.
027	MP101		On MP101 Note 7 indicates a 1 1/2 pumped condensate going up thru floor. On MP102 where the pumped condensate should be, it is labeled as MW (make-up water). Cannot find any pumped condensate along that wall?	Mechanical	Replace pipe tag for 1 ½ MW with 1 ½" PC on Sheet MP102 from continuation from MP101.
028	23 52 29		How many months will the water treatment specified in section 235229 3.2.4 be required?	Mechanical	Per specifications, water testing shall be required "until the Government has accepted the boilers for operation"
029	MP601		MP601 (Boiler Schedule) indicates 65 PSIG operating and 300 PSIG design; 235239 2.1-E indicates 200 PSIG design (typical VA standard for corrosion allowance is 200 PSIG). Please advise on correct design pressure.	Mechanical	Change the schedule note number 2 on MP601 for the Fire Tube Boiler to 200 PSI minimum rating.
030	MP601		Please advise on lbs./hr. requirement for the deaerator. This was not outlined on MP601.	Mechanical	Deaerator capacity is 27600 pounds per hour. See note #4 of the schedule.

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031			Is the 200 BHP boiler a backup boiler?	Mechanical	No.
032	MP601		Specification indicates design pressure for the DA to be 30 PSIG; schedule on MP601 shows a design pressure of 150 PSIG. Please advise on design pressure.	Mechanical	Specification is correct. Revise schedule on MP601 to reflect 30 PSIG.
033			Per RFP requirements 4B states include a schedule for the project. Use a NTP date of June 1, 2014. This date has expired, please provide updated NTP date.	VA	Contractor should use NTP date of December 1, 2015.
034	GS006, MP102, & MP708		We assume all NG piping upstream of the utility company provided gas meter and regulation station (GS006, MP102 & MP708) will be by the VA. We assume the gas meter and regulation station as depicted on GS006 & MP708 is by the VA. Please confirm.	Mechanical	Contractor is responsible for all piping downstream of the utility company meter and regulation station.
035			The drawings do not outline a requirement for a DA platform to access valves, etc. It has been our experience that a platform is required. Please confirm no platform is required for the DA tank on the mezzanine. If required, please provide design.		No platform is required.
036	MP701 & MP301		E1/MP701 depicts a 8" main steam header, however E7/MP301 depicts a 10" main steam header - please advise which one is correct.	Mechanical	Steam header shall be 8". Revise E7 on MP301 to reflect the 8" steam header.



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037			Pre-manufactured Building Site requirements – What is the existing conditions of the site where the pre-fab shed is being placed? Is any cut or fill required prior to installing the 6” of crushed aggregate? Are any there any power or utility provisions for this shed outside of LED motion activated solar security lights? Is any paving or curbing required around this shed? Please provide specification for the shed.		Contractor to provide cut as required to provide a level surface with the added 6” crushed aggregate. No paving required. Add Note to F2 on AE100 to for basis of design Alan’s factory outlet or approved equal. Contractor shall provide stamped and signed drawings for approval and provide anchoring for wind loads in Erie PA.
038	SS002, 09 06 00, 09 91 00		Steel Deck painting – SS002 note 9.3 calls for “steel deck used for support of floor slabs shall be primer painted only”. The finish spec, 09 06 00, calls for the steel decking to be painted P-2 and the painting spec 09 91 00 calls for galvanized metals (which the deck is) to have two coats of semi-gloss paint. Please confirm what is required for the deck. If only priming, is shop/factory priming acceptable?		Steel Deck to receive painting per Specifications.
039			Brick Expansion Joint – Is an interior expansion joint cover required for between the new and existing building?		No expansion joints are required.
040			Contractor Parking – Does the contractor have access to any of the existing parking areas for construction parking outside of what is shown on GS008? The crushed aggregate lot shown on GS009 is for VA use?		Contractor parking area shall be in the areas noted on the plans. The aggregate lot shown on GS009 is for the VA use only.

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041			Undercut, Classified Site – According to Cardno ATC’s Geotechnical Exploration Report it notes “that during construction, a detail foundation and subgrade observation be performed by Cardno ATC and that we are contacted for any conditions not consistent with subsurface conditions encountered in this report. If unusual conditions are encountered within the building footprint due to the previous development or other causes, it may be necessary to undercut the material and/or modify foundation recommendations.” Is Cardno ATC slated for the foundation and subgrade observation? We consider the site is to be classified and that the VA will compensate for any undercut required. Please confirm this. Are we to submit undercut unit prices when we submit our proposal?		No unit prices to be submitted with the proposals. Contractor shall consider the site as classified.
042	23 52 39		Spec. Section 23 52 39 2.3 C. 5. Calls for 30 PPM NOx on both Natural Gas and “low nitrogen No. 2 Fuel Oil – Comment: 30 PPM on Natural Gas is no problem. NOx on Fuel Oil is normal 110 PPM on “low nitrogen No. 2 Fuel Oil...clarification required	Mechanical	Per 23 52 39 2.9 Provide 70-90 ppm NOx with ultra-low No. 2 fuel oil.
043	23 52 39		Spec. Section 23 52 39 2.5 e. 2. Call for Soot Blowers – Comment: No Soot Blowers shown on Drawing MP701 or MP702... clarification that Soot Blowers are not required	Mechanical	Revise Specification Section 23 52 39 2.5 E.2 to remove the Soot Blowers.
044			Numerous locations in the plans and specifications either NEMA 4 or NEMA 4X are listed – Comment: NEMA 4 or NEMA 4X clarification required?		Provide NEMA 4X in locations noted in the plans and specifications.

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045	MP601		Boiler Schedule MP601 Calls for ASME PTC Test – Comment: Provide definition and protocol for ASME PTC Test	Mechanical	PTC = “Performance Test Code”. Testing protocol can be found at <a href="http://www.asme.org">www.asme.org</a>
046	MP601		Boiler Schedule MP601 Calls for “Minimum Heat Exchange” rate in MBTUH – Comment: Minimum Heat Exchange unit of measure should be changed to MMBTUH or the required values should be adjusted accordingly	Mechanical	MP601 schedule is correct. The value is shown in 1000’s of BTUH. 16,328 is separated by a comma not a decimal point.
047	23 09 11		Section 23 09 11, 2.1.A.3 states the control loops but does not include draft control. Is draft control a requirement and what are the specifications?	Mechanical	Draft control is required. See sections 2.2.E, 2.2.Q.8, etc. for more information.
048	23 09 11		Section 23 09 11, 2.1.A states that processors shall be dual, with parallel programming. This differs from the Washington, DC master spec 23 09 11 dated 2/1/15. Is this required?	Mechanical	Provide controls as detailed in project specifications.
049	23 09 11		Section 23 09 11, 2.1.B, D describes several control types, multiple loop controllers with non-touch displays and pushbuttons, and controllers with touch screens. What system shall be provided, touch screen or multiple loop controllers with pushbuttons? All recent projects use control systems with touch screens.	Mechanical	Both types are required per specifications.

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050	23 09 11		Section 23 09 11, 2.1.D.1 and D.2.F state to “provide alternate control station to replace touch screen control functions if touch screen fails.” Is this “alternate control station” meant to be a spare touch screen (for installation upon failure of the original), or an energized, installed, redundant control?	Mechanical	Per specifications, this requirement is for a spare touch screen for installation upon failure of original.
051	23 09 11		Section 23 09 11, 2.1.K.6.F page 15 states “boiler water level control” shall be located on main instrument panel but part 2.1.K.8 (page 15) states “water drum level controller” shall be housed in the “boiler control cabinet attached to the boilers.” Please clarify.	Mechanical	Water level controller shall be mounted on Boiler Control Cabinet as per specifications.
052	23 09 11		Section 23 09 11, 2.3.G, Pressure gauges are specified requiring tubing runs for steam, feed water and fuel header pressures. This could lead to leakage and damage to the internal components of the panel. Shall pressure transmitters and displays be supplied in place of the gauges?	Mechanical	Provide gauges as detailed in project specifications.
053	23 09 11		Section 23 09 11, 2.5.C.j: Multiple pen chart link with unlimited number of pens. Is this required? SCADA systems today do not include chart recorders.	Mechanical	Provide SCADA system as detailed in project specifications.