

Project# 502-12-102/VA256-15-R-1083 Replace Obsolete HVAC Controls - RFI ANSWERS - AMENDMENT P0007

RFI	Item	Section	Para	Description	Response
1	Item	M101	Existing Metering List	This schedule lists 5 existing flow meters of various types, most of which are said to be located in the "Electrical Switchgear" room. On M7-100c, there are qty-4 metering panels shown in Electrical Switchgear Room#12, which I presume represent the panels associated with these 5 flow meters? Are the associated 5 flow meter sensors located in this same room or elsewhere in Bldg-7? If so, where?	The meters listed in the Electrical Switchgear room in the Existing Metering Schedule on sheet M101 is incorrect. The meter panel location for these meters are in the mechanical room in the pipe basement shown on sheet M7-100a between the existing VFDs for HWP7-3&4 and the new HVAC DDC control panel. The location of the flow meters can be found on the as-builts for the "Advanced Utility Metering System". The as-builts for these systems are available from the VA.
2	Item	M101	Existing Metering List	Do the two tables "Existing Metering List" and "Metering To Be Added" include all of the meters that are to be connected to the DDC Control System for this project as suggested by response to RFI#98? Numerous other meters that are not listed on M101 appear on the Floorplan drawings (e.g., M7-100a, qty-4 existing CHW meters, qty-2 existing HW meters; M7-100b, qty-1 existing HW meter; M7-102a, qty-3 CHW meters, qty-1 HW meter; M7-406, qty-4 CHW meters; M7-407, qty-1 HW meter). What are we to do with these additional meters?	The "Existing Metering List" refers only to the existing meters on the "Advanced Utility Metering System" that is not currently tied into the DDC control system that are to be tied into the new DDC control system. The as-builts for these systems are available from the VA. The "Metering To Be Added" refers to the new metering to be added to the DDC control system. The other meters shown that are referenced in this RFI question are existing meters that are on an existing control system that are to be migrated to the new DDC control system.
3	Item	M101	Existing Metering List	Do the two tables "Existing Metering List" and "Metering To Be Added" include all of the meters that are to be connected to the DDC Control System for this project as suggested by response to RFI#98? Numerous other meters that are not listed on M101 appear on the Floorplan drawings (e.g., M7-100a, qty-4 existing CHW meters, qty-2 existing HW meters; M7-100b, qty-1 existing HW meter; M7-102a, qty-3 CHW meters, qty-1 HW meter; M7-406, qty-4 CHW meters; M7-407, qty-1 HW meter). What are we to do with these additional meters?	The "Existing Metering List" refers only to the existing meters on the "Advanced Utility Metering System" that is not currently tied into the DDC control system that are to be tied into the new DDC control system. The as-builts for these systems are available from the VA. The "Metering To Be Added" refers to the new metering to be added to the DDC control system. The other meters shown that are referenced in this RFI question are existing meters that are on an existing control system that are to be migrated to the new DDC control system.
4	Item	M101 & RFIs #53, 54 & 85	Existing Metering List	It iwas previously assumed that the meters listed under "Existing Meter List" on M101 as well as the additional meters appearing on the floorplans (that do not appear on the "Existing Meter List") are "existing to remain". However, the responses to RFIs #53, 54 & 85 state, "Replace all DDC Controls". Does this include all existing flow meters?	The "Existing Metering List" refers only to the existing meters on the "Advanced Utility Metering System" that is not currently tied into the DDC control system that are to be tied into the new DDC control system. The as-builts for these systems are available from the VA. The "Metering To Be Added" refers to the new metering to be added to the DDC control system. The other meters shown in the documents are existing meters that are on an existing control system that are to be migrated to the new DDC control system.
5	Item	23 09 23	1.2.A. & 2.8.K	<p>23 09 23, 1.2.A. calls for a communication interface to the "Advanced Metering System (Schneider &amp; TL Services)".</p> <p>23 09 23, 2.8.K is a product specification for "Digital Energy Monitors" and calls for 3-phase digital watt-meters with integral CT's that will reside directly on the BACnet MS/TP network and provide: KW, KWH, Consumption, Demand, PF, Amps, Volts, Apparent Power, Reactive Power.</p> <p>25 10 00 Advanced Utility Metering System, para 2.6 describes electrical power monitoring that includes considerably more features than required by 23 09 23, 2.8.K, including display and record of waveforms, phase currents and voltages, overlay of phase voltages and currents, disturbance and steady-state waveforms, transient waveforms, calculated waveforms and 2.5 describes BACnet MS/TP data heads at each meter to convert analog and pulsed electrical information to a digital format with 24 hours of data storage.</p> <p>1) What type of electrical meters are to be furnished for "Metering To-Be-Added" on M101? Those described under 23 09 23, 2.8K. or under 25 10 00, 2.6.?</p> <p>2) What type of electrical meters are existing under "Existing Metering List" on M101? Those described under 23 09 23, 1.2.A., 23 09 23, 2.8K. or 25 10 00, 2.6?</p> <p>3) Is it permissable to provide a single communication interface in Bldg-7 to monitor the existing "Advanced Metering System (Schneider &amp; TL Services)" system mentioned in 23 09 23, 1.2.A. or do these existing meters need to be monitored individually in via the new DDC in each building? If to be monitored individually by the new DDC in each building, will the existing communication interface by BACnet/IP, BACnet/MSTP, Modbus or Modbus RTU?</p> <p>4) Which of the electrical meters included on M101 "Existing Metering List" are part of the "Advanced Metering System (Schneider &amp; TL Services)" described under 23 09 23, 1.2.A?</p>	<p>1. 23 09 23, 2.8K</p> <p>2. They should be as specified in 25 10 00, 2.6. Verify with as-built documents available from the VA.</p> <p>3. Monitor each by the new DDC in each building. The new DDC control system shall communicate in BACnet/IP if the existing meters can send outputs in that protocol. It is believed that the existing meters can send outputs in BACnet/IP. Confirm with as-builts.</p> <p>4. All of the electrical meters included on M101 Existing Metering List are part of the existing Advanced Metering System.</p>
6	Item	General	Air Compressors	After all existing pneumatic controls have been replaced with electronic, what is to be done with the existing air compressors? Are they to be demo'd or left in place?	They are to be demo'd where shown to be demo'd on the plans and returned to VA. They are to be abandoned in place for any other locations.
7	Item	Amendment-5	RFI#124 Response	Response to RFI#124 regarding use of BACnet MS/TP protocol vs. use of manufacturer's standard proprietary protocol was: "All communication shall be open protocol BACnet. MS/TP is not acceptable." Is this response a typo? It is our belief that BACnet MS/TP is to be allowed (as per 24 09 93, 2.2.F.1) and that non-BACnet proprietary manufacturer protocols are not allowed. Is this correct?	Neither MS/TP nor non-BACnet proprietary protocols are allowed.
8	Item	General		We assume that we are to prepare pricing that is based on the information provided on the project bid drawings, correct? How are we to address control system components that we may encounter that require replacement, but that are not depicted or referenced on the bid drawings?	Contractor to furnish and bear all costs for replacement of sensors required to provide a fully operational system.
9	Item	Fiber Optic Cable Routing		Based on discussions at the 06/08/2016 walk-through, It is our understanding that a contiguous underground ARCNET cable path already exists between the qty-16 buildings listed on M100 "Fiber Optic Network Routing". Further, it is our understanding that the existing ARCNET cable bank has sufficient space to accomodate the new 24-strand fiber optic ring without the need for new underground duct banks. Is this correct?	It has been determined that new duct bank will be required for the route external of the buildings as follows; Bldgs. 1 to 46, 46 to 45, 45 to 16, 16 to 13. Arc Net Duct bank can be used to connect 13 to 41, 147, 7 and 8. New duct bank required to connect bldgs. 8 to 6.
10	Item	General		In consideration of the additional information gathered during the 06/08/2016 walk-through and the forthcoming information to be provided via outstanding RFI responses (e.g., RFI#75, RFI#116.1, RFI#116.6, RFI#117.7, those included in this RFI submittal), we respectfully request an additional two weeks to complete our pricing and proposals.	The proposal date has been extended
11	Item	Drawing M100	Existing Meeting List	Please confirm all meters in the “Existing Metering List” are not being replaced.	Existing metering is not to be replaced.

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RFI	Item	Section	Para	Description	Response
12	Item	Drawing M101	Metering to be added	"Metering to be added" & M2-100 BLDG 2 - Room: "Pipe Basement" -CHW - Q: What is the size of this Meter?	Size meter for the existing pipe size
13	Item	Drawing M101	Metering to be added	"Metering to be added" & M2-100 BLDG 2 - Room: "Pipe Basement" - CHW - Q: What is the size of the line?	3" pipe
14	Item	Drawing M101	Metering to be added	"Metering to be added" & M100 BLDG 5 - Room: "Pump Room" - CHW - Q: What is the size of this Meter?	Size meter for the existing pipe size
15	Item	Drawing M101	Metering to be added	"Metering to be added" & M100 BLDG 5 - Room: "Pump Room" - CHW - Q: What is the size of the Line?	3" pipe
16	Item	Drawing M101	Metering to be added	"Metering to be added" & M100 BLDG 5 - Room: "G07" - Domestic Water - Q: What is the size of this Meter?	Size meter for the existing pipe size
17	Item	Drawing M101	Metering to be added	"Metering to be added" & M100 BLDG 5 - Room: "G07" - Domestic Water - Q: What is the size of the line?	3" pipe
18	Item	Drawing M101	Metering to be added	"Metering to be added" & M100 BLDG 5 - Room: "D07" - Steam - Q: What is the size of this Meter?	Size meter for the existing pipe size
19	Item	Drawing M101	Metering to be added	"Metering to be added" & M100 BLDG 5 - Room: "D07" - Steam - Q: What is the size of the line?	2" pipe
20	Item	Drawing M101	Metering to be added	"Metering to be added" & M8-101 BLDG 8 - Room: "MECH BASEMENT" - CHW Q: What is the size of this Meter?	Size meter for the existing pipe size
21	Item	Drawing M101	Metering to be added	"Metering to be added" & M8-101 BLDG 8 - Room: "MECH BASEMENT" - CHW Q: What is the size of the line?	2.5" Pipe
22	Item	Drawing M101	Metering to be added	"Metering to be added" & M8-101 BLDG 8 - Room: "MECH BASEMENT" - Steam - Q: What is the size of this Meter?	Size meter for the existing pipe size
23	Item	Drawing M101	Metering to be added	"Metering to be added" & M8-101 BLDG 8 - Room: "MECH BASEMENT" - Steam - Q: What is the size of the line?	2" pipe
24	Item	Drawing M101	Metering to be added	"Metering to be added" & M8-101 BLDG 8 - Room: "MECH BASEMENT" - Dom Water - Q: What is the size of this Meter?	Size meter for the existing pipe size
25	Item	Drawing M101	Metering to be added	"Metering to be added" & M8-101 BLDG 8 - Room: "MECH BASEMENT" - Dom Water - Q: What is the size of the line?	3" pipe
26	Item	Drawing M101	Metering to be added	"Metering to be added" BLDG 14 - Room: "Steam Plant" - Steam(Campus) - Q: What is the size of this Meter?	Size meter for the existing pipe size
27	Item	Drawing M101	Metering to be added	"Metering to be added" BLDG 14 - Room: "Steam Plant" - Steam(Campus) - Q: What is the size of the line?	8" pipe
28	Item	Drawing M101	Metering to be added	"Metering to be added" BLDG 14 - Room: "Steam Plant" - Steam(Laundry) - Q: What is the size of this Meter?	Size meter for the existing pipe size
29	Item	Drawing M101	Metering to be added	"Metering to be added" BLDG 14 - Room: "Steam Plant" - Steam(Laundry) - Q: What is the size of the line?	4" Pipe
30	Item	Drawing M101	Metering to be added	"Metering to be added" & M46-101 BLDG 46 - Room: "Attic Mech" - CHW - Q: What is the size of this Meter?	Size meter for the existing pipe size
31	Item	Drawing M101	Metering to be added	"Metering to be added" & M46-101 BLDG 46 - Room: "Attic Mech" - CHW - Q: What is the size of the line?	2" pipe
32	Item	Drawing M101	Metering to be added	"Metering to be added" & M46-101 BLDG 46 - Room: "Attic Mech" - Steam - Q: What is the size of this Meter?	Size meter for the existing pipe size
33	Item	Drawing M101	Metering to be added	"Metering to be added" & M46-101 BLDG 46 - Room: "Attic Mech" - Steam - Q: What is the size of the line?	2" pipe
34	Item	Drawing M2-202 -		On the chilled water bypass lines that are to be demolished; What is the pipe size and approximate length of pipe to be removed on the North B South secondary chilled water systems?	4" per as-builts and approximately 10' back to tee. Cap tee after demolition.
35	Item	Drawing M2-202 -		On the chilled water bypass lines that are to be demolished; What is the pipe size and approximate length of pipe to be removed on the North B South secondary chilled water systems?	4" per as-builts and approximately 10' back to tee. Cap tee after demolition.
36	Item	Drawing M7-212		What is the type and size of the automatic isolation valve with manual override for Chiller changeover?	4"
37	Item	Drawing M7-212		What is the type and size of the automatic isolation valve with manual override for Chiller changeover?	4"
38	Item	Drawing M8-200		What is the line size and valve size for the new chilled water valve?	Valve to be sized for proper valve authority. Provide reducers as necessary.
39	Item	Drawing M8-200 - Note 4.		"New Chilled water valve to be 2-way. Replace Tee in supply pipe with Straight piece of Pipe." When we replace the Tee with a straight pipe, what is the third line tying into? Or are we capping it off?	When the tee is replaced with a straight piece of pipe in the supply and the 3-way valve in the return line is replaced with a 2-way valve the third line will no longer be connected to anything and shall be removed.
40	Item	Drawing M8-201		What is the line size and valve size for the new chilled water valve?	Valve to be sized for proper valve authority. Provide reducers as necessary.
41	Item	Drawing M8-201		"New Chilled water valve to be 2-way. Replace Tee in supply pipe with Straight piece of Pipe." When we replace the Tee with a straight pipe, what is the third line tying into? Or are we capping it off?	The valve to stay a 3-way valve
42	Item	Drawing M9-200		What is the line size and valve size for the new chilled water valve?	Valve to be sized for proper valve authority. Provide reducers as necessary.
43	Item	Drawing M9-200		"New Chilled water valve to be 2-way. Replace Tee in supply pipe with Straight piece of Pipe." When we replace the Tee with a straight pipe, what is the third line tying into? Or are we capping it off?	The valve to stay a 3-way valve
44	Item	Drawing M9-202		What is the line size and valve size for the new chilled water valve?	Valve to be sized for proper valve authority. Provide reducers as necessary.
45	Item	Drawing M9-202		"New Chilled water valve to be 2-way. Replace Tee in supply pipe with Straight piece of Pipe." When we replace the Tee with a straight pipe, what is the third line tying into? Or are we capping it off?	When the tee is replaced with a straight piece of pipe in the supply and the 3-way valve in the return line is replaced with a 2-way valve the third line will no longer be connected to anything and shall be removed.
46	Item	Drawing M9-204		What is the size of the 2-way valves for the HW & CHW Lines being installed for the BH&B and G&B Fan Coil Units?	1/2"
47	Item	Drawing M7100b,M7100C, M7101a, M7101b.	Demo Thermostats & Pneumatic tubing	States, "Demo Thermostats & Pneumatic tubing." Is the contractor responsible for repairing all wall openings after removal of these thermostats?	Yes the contractor Is responsible for wall repair. Match existing.
48	Item			Please confirm no asbestos abatement will be required as part of this contract.	Asbestos abatement will be done on an as needed basis. See RFI #62 answer
49	Item	Drawing M100 - Note one		"Fiber is to be routed in existing ARC net cable bank. Provide new duct bank where space requires." Which runs of new fiber ring will require new duct bank?	It has been determined that new duct bank will be required for the route external of the buildings as follows; Bldgs. 1 to 46, 46 to 45, 45 to 16, 16 to 13. Arc Net Duct bank can be used to connect 13 to 41, 147, 7 and 8. New duct bank required to connect bldgs. 8 to 6.
50	Item	3.1.1.1		"Offerors shall provide proof (complete list of equipment to be used by nomenclature, manufacturer, part numbers and quantity) that one of the six listed systems or equivalent listed above that shall be used. Q: Will this requirement be excluded from the proposal page limitations?	This is not included in the proposal's page count limitation.
51	Item	3.3.1.2 Section iii.		"Offerors shall provide a listing of all operation and maintenance manuals that shall be provided with the system and confirm this is the complete set of documentation...." Q: Will this requirement be excluded from the proposal page limitations?	The manuals wil not be included in the proposal's page count limitation.
52	Item	3.4.1.1		"The offeror shall utilize the questionnaire at the end of this section (attachment 1 ) to fulfil the past performance requirement by sending the form to the customer reference and requesting it be sent directly to government point of contact listed on the form" Q: Will final CPARS evaluations be accepted in lieu of Attachment 1? If yes, will these documents be excluded from the proposal page limitations?	The Past Performance Attachment shall be used. These forms are not included in the 25 page limitation. The government will pull the CPARS evaluations to use in conjunction with these forms when evaluation past performance.
53	Item	3.4.1.1		"The offeror shall utilize the questionnaire at the end of this section (attachment 1 ) to fulfil the past performance requirement by sending the form to the customer reference and requesting it be sent directly to government point of contact listed on the form" Q: Will previously completed Past Performance Questionnaires be accepted in lieu of Attachment 1? If yes, will these documents be excluded from the proposal page limitations?	The Past Performance Attachment shall be used. These forms are not included in the 25 page limitation.

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RFI	Item	Section	Para	Description	Response
54	Item	4.2.2.3		states, "Each offer shall include a breakdown of total line item cost (i.e., equipment, materials, labor) per CLIN.." However, Section 4.2.1.1 states, "if deemed necessary to evaluate price proposals, the government requests a price breakdown of the contract line items as indicated on teh price schedule bid page." Q: Is each offeror required to submit a detailed pricing breakdown of CLIN 0001 with their price proposal ?	Due to the extended time of the RFI process the government is requestiing the supplemental Price Breakdown in the initial proposal. Each offeror shall include a breakdown of total line item cost (i.e., equipment, materials, labor) per the one CLIN in order for fair and reasonable pricing to be determined when comparing offered price with the government estimate.
55	Item			For work being completed in exam rooms, offices, bathrooms, hallways, x-ray, and patient rooms, will these areas be accessible during normal working hours?	Yes these rooms will be accessable during normal business hours, however it will have to be coordinated with the people in charge of the rooms
56	Item			Will the project superintendent be provided a set of keys for access to work in all exam rooms, offices, bathrooms, hallways, x-ray, and patient rooms?	No. The contractor will be provided a construction key which will allow access to certain construction areas. All other access to "secure" areas will be coordinated and granted by VA Personnel.
57	Item			Per RFI #11 and VA response, in order to cost the filter replacements in each AHU that is to be tested and balanced, the Contractor requests sizes, types, and quantity of filters required for each AHU.	See attached AHU Air Filters
58	Item			Per RFI #27 – Can the local VA Fire Dept recertify the dampers after pneumatic actuators have been replaced with DDC?	No. A third party will have to certify.
59	Item			Technical Response is page limited to 25 pages. Due to the amount of information requested by the VA for this section, can the VA increase the page limit to 50 for the Technical Section?	The Technical Proposal page limitation has been increased from 25 to 40 pages (1.3.4.4)
60	Item	Drawing M2-101		states existing induction units and controls to remain. Are these controllers on this floor BACnet compliant per specifications and RFIs to date?	The induction unit controls on this floor are outside the scope of this project and are to remain as-is.
61	Item	Drawing M2-101		states existing induction units and controls to remain. Are these controls on this floor to remain no matter which Controls manufacturer is contracted (i.e. JCI, Siemens, Trane, etc.) to perform the control work?	The induction unit controls on this floor are outside the scope of this project and are to remain as-is.
62	Item	Drawing M2-104		states no existing or new mechanical equipment to be controlled on this floor. Are these controls on this floor BACnet compliant per specifications and RFIs to date?	The induction unit controls on this floor are outside the scope of this project and are to remain as-is.
63	Item	Drawing M2-104		states no existing or new mechanical equipment to be controlled on this floor. Are these controls on this floor to remain no matter which Controls manufacturer is contracted to perform the control work?	The induction unit controls on this floor are outside the scope of this project and are to remain as-is.
64	Item	Drawing M8-101		indicates two (2) new VFDs are to be provided to replace starters on 8-AHU-1 and on 8-AHU-2. What horsepower are these VFDs as there is no information provided?	AHU-1: 10 HP, AHU-2: 15 HP
65	Item	Drawing M16-201		indicates two (2) new VFDs are to be provided for two (2) AHU fan motors on 16-AHU-2 and 16-AHU-3. What horsepower are these VFDs as there is no information provided?	AHU-2: 30 HP, AHU-3: 30 HP. Field Verify.
66	Item	Drawing M46-201		indicates an existing VFD is located on this AHU. However drawing M46-101 indicates that this VFD is to be replaced. Is this VFD to be replaced?	M46-201 only states that a new VFD is to be installed. There is no existing VFD. New VFD & motor to be installed per M46-101
67	Item	Drawing M49-201		indicates VAV Terminal Box T-stats are to remain. Are these t-stats to remain no matter which controls manufacturer is contracted (i.e. JCI, Siemens, Trane, etc.)?	Yes, they are to remain.