

**Project# 502-12-102/VA256-15-R-1083 Replace Obsolete HVAC Controls - RFI - AMENDMENT #P0005**

RFI	Item	Description	Response
#116		The below 68 reference items, taken from both plans and specifications, suggest that Siemens is intended to be the sole source energy management system provider for this project (since they are the only EMCS vendor able to comply with the below 68 items). It should be noted that although Siemens has an existing front-end server in place at Alexandria VA Medical Center, there is substantially more existing Johnson Controls Metasys DDC field controllers in place and operating than Siemens controllers. Item#3 below (23 09 23, 1.1.A.) places suppliers other than Siemens at a distinct disadvantage by forcing them to replace their existing systems in their entirety (even existing portions that comply with the specifications) as well as replacing all of the existing Siemens controllers, presenting an insurmountable cost disadvantage. Is the intent of the bid documents to sole source Siemens?	The basis of design for this project is the Siemens Apogee EMS system however this is not a sole source solicitation. The project is open to all vendors so long as the technical requirements are met and the entire campus as currently controlled by Siemens and the equipment shown on these drawings are controlled by the new system. At the completion of the project all controllers, panels, logic, etc. shall be native to the successful bidder. No gateways or other "black boxes" are allowed. Any existing controllers, panels, etc from the successful bidder may remain so long as they comply with the specifications and are native to the new front end.The new front end shall be equal to or better than the basis of design and shall have the latest software available.
	1	"Brand names can be ignored in section 23 09 23, with the exception of the Siemens brand name when it is being used to describe the existing DDC system that is in place. An example of the wording that can be ignored would be: 'Sensor shall be Drexel Brook or equal.' "	This addendum removes the restriction to a specific brand and opens it to all brands that comply with the other specification requirements.
	2	"The new extended and upgraded campus controls system is designed as an extension of the existing VAMC campus wide Siemens EMS system and infrastructure to fully integrate all buildings contained in the contract documents and utility monitoring and metering systems."	All successful bidders are held to the same requirements of installing a new front end and replacing all controllers, panels, logic, etc to provide one complete system that is native to the product of the successful bidder.
	3	"Any manufacturer other than Siemens must fully replace existing Siemens equipment in the same manner that these drawings show other existing manufacturer's equipment being replaced."	Replace all DDC Controls
	4	"All Siemens sequences not shown but existing must be created for any non-Siemens system."	ANSWER WILL BE PROVIDED IN FUTURE AMENDMENT
	5	"The new system shall be an upgrade and extension of the existing Siemens campus wide EMS or a complete replacement of that system."	The only ways for the campus to receive a DDC control system for the entire campus is for all of the pneumatic controls to be replaced and for either Siemens to replace the JCI items, JCI to replace the Siemens items, or another vendor to replace all of it.
	6	"The existing Siemens EMS presently monitors at least a portion of the following buildings, all existing functions not shown in the drawings shall be migrated to the upgraded server: a. Building 1 Admin                      b. Building 2 Admin c. Building 3 Admin                      d. Building 4 Dietary e. Building 7 Main Hospital            f. Building 45 Nursing Home g. Building 49 Mental Health Rehab   h. Building 147 Chiller Plant"	ANSWER WILL BE PROVIDED IN FUTURE AMENDMENT
	7	"The existing Siemens DDC system presently has control of at least a portion of the following buildings, all existing functions not shown in the drawings shall be migrated to the upgraded server: a. Building 7 Main Hospital            b. Building 8 Canteen c. Building 9 Psychiatric Hospital     d. Building 147 Central Chiller Plant"	ANSWER WILL BE PROVIDED IN FUTURE AMENDMENT
	8	"Motorized isolation valves shall be Jamesbury 815/830L, Fisher, DeZurik Model HP II, Tyco/Siemens or Bray."	Per Addendum 1 brand names have been removed.
	9	"Motorized isolation valves shall be Neptronic, Dezurik or Siemens Industry, Inc."	Per Addendum 1 brand names have been removed.
	10	"Indoor Air Quality (CO2/Temp/RH) Sensors - The sensors shall be equal to model Siemens QPA1000, QPA2000, QPM2100, or QPM1100 Series or equal."	Per Addendum 1 brand names have been removed.
	12	"This project shall upgrade the existing VAMC Campus Wide Siemens Apogee EMS system and infrastructure to fully integrate all buildings contained in the contract documents and utility monitoring and metering systems. The new system, including interface to existing systems and equipment shall operate and function as one complete system including one database of control point objects and global control logic capabilities (trending, logging, metering, etc.)"	The existing Siemens system can be upgraded to another manufacturer so long as all specification requirements are met. The intent of this statement is to describe the general project requirements not to limit the new system to Siemens.
	13	"Existing DDC System is JCI. Replace controllers in existing panels to fully integrate all equipment to Siemens campus system."	Replace all DDC Controls
	14	"Existing Fan Coil Unit to remain. Replace Fan Coil Unit controller and control panels to fully integrate to Siemens campus system."	Replace all DDC Controls
	15	"Existing Fan Coil Unit to remain. Replace Fan Coil Unit controller and control panels to fully integrate to Siemens campus system."	Replace all DDC Controls
	16	"Existing DDC System is Louisiana Controls. Replace equipment controllers and control panels to fully integrate to Siemens campus system."	Replace all DDC Controls

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	17	"Existing DDC System is Louisiana Controls. Replace equipment controllers and control panels to fully integrate to Siemens campus system."	Replace all DDC Controls
	18	"Existing DDC System is Louisiana Controls. Replace equipment controllers and control panels to fully integrate to Siemens campus system."	Replace all DDC Controls
	19	"Existing DDC System is JCI. Replace controllers to fully integrate to campus Siemens system."	Replace all DDC Controls
	20	"Existing DDC System is JCI. Replace controllers to fully integrate to campus Siemens system."	Replace all DDC Controls
	21	"Existing DDC System is JCI. Replace controllers to fully integrate to campus Siemens system."	Replace all DDC Controls
	22	"Existing DDC System is JCI. Replace controllers to fully integrate to campus Siemens system."	Replace all DDC Controls
	23	"Existing DDC System is JCI. Replace controllers to fully integrate to campus Siemens system."	Replace all DDC Controls
	24	"Existing Chilled Water Pump (CHWP#7-1a) with DDC Controls. Integrate to Siemens campus system and new communications network."	Replace all DDC Controls
	25	"Existing Chilled Water Pump (CHWP#7-2a) with DDC Controls. Integrate to Siemens campus system and new communications network."	Replace all DDC Controls
	26	CHWP's "On existing Siemens campus system. Migrate to new server & communications network."	Replace all DDC Controls
	27	"All existing Siemens controlled equipment to be migrated to new server and communications network."	Replace all DDC Controls
	28	"Existing Building-7 expansion equipment on the Siemens campus system. Migrate to new server and communications network."	only 2 Air handlers have been replace, 7-AHU107 and 7-AHU108
	29	"AHU's 7-AHU107, 7-AHU108, 7-AHU109, 7-AHU110, 7-AHU101, 7-AHU112, 7-AHU105, 7-AHU114 are currently in the process of being replaced and added to the exist campus Siemens system in a four phase project. They are shown in these plans to be existing DDC on campus Siemens system. Verify status of this project during pre-bid walk-thru with VA. If the replacement of these air handlers has been put on hold, provide line item price to convert fully existing controls to fully DDC and integrate with the campus system for full control. Control sequences shall match existing. Field verify existing conditions."	Replace all DDC Controls
	30	"Existing 7-AC112 on Siemens campus system. Migrate existing controls to new server and communications network."	Replace all DDC Controls
	31	"Add MRI/CT AHU7-1 to campus Siemens control system"	Replace all DDC Controls
	32	"Existing Exhaust Fan (7-EF103) on Roof. Interlocked with 7-AHU103 on Siemens campus system. Migrate controls to new server and communications network."	Replace all DDC Controls
	33	"Existing AHU on Siemens campus system. Migrate to new server and communications network." (appears 4 times)	Replace all DDC Controls
	34	"AHU on Siemens system. Migrate to server and communications network."	Replace all DDC Controls
	35	"Existing AHU on Siemens campus system. Migrate to new server and communications network."	Replace all DDC Controls
	36	"Existing 2-speed motor exhaust fan (7EF-121) on DDC controls. Interlocked with fume hood on high speed and interlocked with 7-AC106 on low speed. Fully integrate to Siemens campus system."	Replace all DDC Controls
	37	"Existing 0.75HP exhaust fan (7EF-118) on existing Siemens campus system. Migrate to new server and communications network."	Replace all DDC Controls
	38	"Existing 2-speed motor exhaust fan (7EF-120) on DDC controls. Interlocked with fume hood on high speed and interlocked with 7-AC106 on low speed. Fully integrate to Siemens campus system."	Replace all DDC Controls
	39	"Existing AHU on Siemens campus system. Migrate to new server and communications network."	Replace all DDC Controls
	40	"Existing controls are DDC. Fully integrate to Siemens campus system."	Replace all DDC Controls
	41	"On existing DDC controls. Fully integrate with Siemens campus system." (appears 4 times)	Replace all DDC Controls
	42	"Existing AHU on Siemens campus system. Migrate to new server and communications network."	Replace all DDC Controls
	43	"All equipment in this project will be controlled by the campus Siemens system. Migrate all controls to the new server."	Replace all DDC Controls
	44	"All equipment in this project will be controlled by the campus Siemens system. Migrate all controls to the new server."	Replace all DDC Controls
	45	"All equipment in this project will be controlled by the campus Siemens system. Migrate all controls to the new server."	Replace all DDC Controls
	46	"All equipment in this project will be controlled by the campus Siemens system. Migrate all controls to the new server."	Replace all DDC Controls
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	56	"All equipment in this project will be controlled by the campus Siemens system. Migrate all controls to the new server."	Replace all DDC Controls
	57	"All equipment in this project will be controlled by the campus Siemens system. Migrate all controls to the new server."	Replace all DDC Controls
	58	"Controls by others and integrated by Siemens through BACnet interface at Insight."	Replace all DDC Controls
	59	"All equipment in this project will be controlled by the campus Siemens system. Migrate all controls to the new server."	Replace all DDC Controls
	60	"All equipment in this project will be controlled by the campus Siemens system. Migrate all controls to the new server."	Replace all DDC Controls
	61	"All equipment in this project will be controlled by the campus Siemens system. Migrate all controls to the new server."	Replace all DDC Controls
	62	"Existing Siemens control panel"	Replace all DDC Controls
	63	"All control devices are existing pneumatic to be replaced with DDC device to fully integrate to Siemens campus system."	As Siemens is the basis of design, this reference to Siemens refers to the successful bidder and does not limit the project to Siemens.
	64	"All control devices are existing JCI pneumatic to be replaced with DDC device to fully integrate to Siemens campus system."	As Siemens is the basis of design, this reference to Siemens refers to the successful bidder and does not limit the project to Siemens.
	65	"All control devices are existing JCI pneumatic to be replaced with DDC device to fully integrate to Siemens campus system."	As Siemens is the basis of design, this reference to Siemens refers to the successful bidder and does not limit the project to Siemens.
	66	"All control devices are existing pneumatic to be replaced with DDC device to fully integrate to Siemens campus system."	As Siemens is the basis of design, this reference to Siemens refers to the successful bidder and does not limit the project to Siemens.
	67	"All control devices are existing pneumatic to be replaced with DDC device to fully integrate to Siemens campus system."	As Siemens is the basis of design, this reference to Siemens refers to the successful bidder and does not limit the project to Siemens.
	68	"Existing DDC System is JCI. Replace controllers to fully integrate to campus Siemens system."	As noted elsewhere, any existing controllers, panels, etc from the successful bidder may remain so long as they comply with the specifications and are native to the new front end.
#117		The bid documents appear to allow Siemens to leave their existing DDC controllers in place, without even having to upgrade their existing non-BACnet controllers to a BACnet type, is that correct?	This is incorrect. All existing controllers that are non-BACnet or do not meet the specifications are to be replaced no matter who the successful bidder is. Therefore, if JCI were the successful bidder and existing JCI controllers that are non-BACnet or do not meet the specification would also require replacement.
#118		States, "All controllers (building controllers, advanced application controllers, application specific controllers, etc) on campus shall be supplied by the campus system manufacturer and shall be the latest version." Does this mean that all existing DDC controllers are to be replaced with the control system manufacturer's most current model & firmware revision presently available?	Replace all DDC Controls
#119		"Gateways to interface with controllers shall not be permitted." This statement seems to conflict with item-58, above, and other items above calling for migration and integration of existing controls to the existing Siemens campus system. Which is correct?	This unit is a mini-split heat pump with a factory mounted BACnet controller that shall be integrated to the new campus system. The successful bidder should be able to communicate with this controller without the use of a gateway. If not the controller should be replaced.
#120		"Provide control transformers for VAV boxes, FCU's, etc. that are being converted from pneumatic to DDC controls." Has confirmation been made that spare electrical circuits are available for these additional loads in each building?	Controls transformers for with can be connected to the circuit powering the equipment or the nearest circuit for a control panel.
#121		"Low voltage cabling above ceiling to be routed in existing cable trays where space allows. Install new cable trays where required. Cabling is not to be laid on top of ceiling." Where cable trays do not exist or are full, can J-hooks be used to support low voltage cabling?	J-hooks are not allowed. Install in cable trays per documents or conduit.
#122		"All existing smoke dampers shown on plans are pneumatic controlled and are to be converted to electronic control and connected to fire alarm system. Existing electronic smoke dampers are not shown." Are existing pneumatic smoke dampers to be replaced with new smoke dampers having electronic actuators or are the existing smoke dampers to remain and be retrofitted with new electronic actuators? If existing dampers are to be retrofitted with new electronic actuators, is field re-certification by UL of the retrofitted smoke damper assemblies required?	Yes, recertification of the damper assembly is required. It is acceptable to replace the damper if that is a more cost effective option.
#123		States, "All BAS peer-to-peer building controllers and local user displays shall be UL Listed Standard UL916, category PAZX; Standard ULC C100, category UUKL7; and under Standard UL864, categories UUKL, UDTX, and QVAX and be so listed at the time of the Bid." Is it the intent of these bid documents that all building controllers residing on the "Primary Network" of the energy management control system at the completion of this project be UL864 UUKL listed for smoke control? Is there a similar requirement for application specific controllers residing on the "Secondary Network"?	Per 23 09 93 1.4.A.7 All field level controllers shall comply with UL Standard UL 864 category UUKL; and be so listed at the time of Bid.



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RFI	Item	Description	Response
#124		<p>1.1.A. states, "Utilize open protocol DDC control for equipment and software, BACnet." (This statement is also included in Amendment A0001, Solicitation, Statement of Work, Tasks, Item-1)</p> <p>1.2.A.5 states, "The DDC system shall be native BACnet. All new workstations, controllers, devices and components shall be listed by BACnet Testing Laboratories. All new workstations, controller, devices and components shall be accessible using a Web browser interface and shall communicate exclusively using the ASHRAE Standard 135 BACnet communications protocol without the use of gateways."</p> <p>2.2.F.1, states, "Communication over the secondary network shall be BACnet MS/TP protocol. When possible. Otherwise, the manufacturer's standard protocol shall be used."</p> <p><del>1.1.A and 1.2.A.5. appear to conflict with 2.2.F.1. Which statement(s) are correct?</del></p>	<p>All communication shall be open protocol BACnet. MS/TP is not acceptable.</p>
#125		<p>States, "Fiber is to be routed in existing Arc Net cable bank. Provide new duct bank where space requires." Which segments of the new fiber network shown on M100 will require new underground duct bank to be installed? Can any of the existing Arc Net cabling in the duct bank be removed and used to pull in new fiber optic cable?</p>	<p>Contractor to verify with VA locations where existing cable bank does not have spare capacity. No existing cabling to be removed.</p>
#126		<p>Building 14 is indicating that new utility meters are to be installed as part of this project. No drawings have been provided for Building 14. Can the VA provide drawings indicating where the new meters are to be installed?</p>	<p>See Pg M101 Upper Right Corner</p>