

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			BPA NO.		1. CONTRACT ID CODE		PAGE 1		OF PAGES 7	
2. AMENDMENT/MODIFICATION NUMBER A00004			3. EFFECTIVE DATE 06-08-2017		4. REQUISITION/PURCHASE REQ. NUMBER			5. PROJECT NUMBER (if applicable) 675-17-817SL		
6. ISSUED BY Department of Veterans Affairs Network Contracting Office 8 (NCO 8) for Orlando VA 8875 Hidden River Pkwy Suite 525 Tampa FL 33637			CODE 36C248		7. ADMINISTERED BY (If other than Item 6) Department of Veterans Affairs Network Contracting Office 8 (NCO 8) for Orlando VA 8875 Hidden River Pkwy Tampa FL 33637			CODE 36C248		
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To all Offerors/Bidders					(X)	9A. AMENDMENT OF SOLICITATION NUMBER VA248-17-R-0685				
						9B. DATED (SEE ITEM 11) X 05-15-2017				
						10A. MODIFICATION OF CONTRACT/ORDER NUMBER				
						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 type="checkbox"/> is extended, <input checked="" 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 _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication 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 letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.										
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.										
CHECK ONE	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> copies to the issuing office.										
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)										
THE PURPOSE OF THIS AMENDMENT IS TO INCORPORATE REQUEST FOR INFORMATION (RFI) SET #2 DATED 6-8-2017 TO INCLUDE THE LIST OF ATTACHMENTS AND TO PROVIDE THE SITE VISIT SIGN IN SHEET DATED 6-7-2017 Please only refer to the PDF versions of all solicitation and amendment documents										
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)					
					TIFFANY GARFIELD NCO815L2-71061					
15B. CONTRACTOR/OFFEROR				15C. DATE SIGNED		16B. UNITED STATES OF AMERICA			16C. DATE SIGNED	
_____ (Signature of person authorized to sign)						BY _____ (Signature of Contracting Officer)				

VA248-17-R-0685

6-8-2017

Design Build – Upgrade Lakemont Data Center UPS System

VA Medical Center Orlando

Request For Information (RFI) Set #2

1. Answer to previous RFI, asked May 24th, regarding the Data Center floor plan layout is critical to receive right away since all planning, phasing and scheduling of the project relies upon this information and we are not able to proceed with large portions of the proposal without this information. Can Data Center Floor Plan as-builts be forwarded right away or can a site visit be scheduled soon?

Data center layout floorplan attached to be included with amendment

2. Solicitation page 19 of 80, note 10, in the Scope of Work requires a “dual feed from commercial power using different paths”. Is the intent to add a second OUC utility feeder and transformer to the building to provide the “second commercial source” of power, or will the second source of power be within the building and on the existing single power service to the building?

The intent is **not** to add a second utility feeder into building, but to ensure that each UPS is fed from a different source within the building. One source shall come from electrical room 142 behind the canteen and the other shall come from electrical room 141 on the other side of the building.

3. Please provide the switchgear shop drawings for the panels and generator that were installed under the 2014 AKEA Generator project.

Switchgear shop drawings attached to be included in amendment.

4. Please clarify if MTS-1, MTS-2 & MTS-3 are manual or automatic transfer switches.

MTS-1, MTS-2, and MT3-3 are in fact ATSs labeled ATS-1, ATS-2, and ATS-3 respectively. As-built one line diagram attached showing this change to original drawings to be included with amendment.

5. If MTS-1 & MTS-3 are manual, will this satisfy item 10 under Scope of Work, or will they need to be changed to automatic transfer switches?

They are not manual. ATSs are already existing.

6. The solicitation outlines three specific performance parameters for the new UPS system and it also notes the specific model number and size of the UPS(s) to be furnished. On page 2 of 5 under the Project Overview it notes that the replacement units shall increase the runtime to a minimum of 60 minutes and account for future expansion. On page 3 of 5, paragraph 12 outlines a requirement for adding 50% additional electrical load for networking equipment with the ability of the new UPS(s) to support and retain the 60 minute runtime. On page 3 of 5, paragraph 9 notes the contractor shall install two (2) Symetra PX 175KW UPS units scalable to 250KW or a compatible system with minimum 60 minutes of runtime for both A and B sides of the data center.

- a. In order to properly size the UPS systems to meet the 60 minute requirements stated we need to know the current loading of the UPS(s), i.e., a load study for the UPS(s) which notes the typical electrical loads per UPS over a typical 24 hour period. Without the actual load information it will be hard to calculate the battery runtimes or sizing requirements to meet the 60 minute runtime.

We currently have three 80kW systems running between data center A and B. Two at 55% capacity and one at 75%. This indicates that the total load between the two rooms is currently 148kW. The run times vary from 9 minutes to 30 and your ideal runtime would be 1- hour.

- b. Based on the loading information above, if the UPS noted (175KW) fails to meet the 60 minute runtime do we increase the size of the UPS to meet the 60 minute runtime or furnish the unit specified and just advise on the estimated runtime with the UPS rated at 175 KW and at 250 KW.

It is the contractor's responsibility to check the current load and provide a system that can support the 60 minutes run time.

- c. Based on the loading above, do we use a 50% multiplier on this load for the assumed future growth load and size the UPS for this load with the noted 60 minute runtime.

Yes

7. During the site visit it was noted that the renovation/expansion of the data center area is to include Rooms 122, 122A, and 122B. Please confirm.

Yes, these rooms will be combined into one big room making sure that fire walls are preserved or created if not existing on the outside walls to the adjacent areas.

8. During the site visit it was noted that the opening from Room 122 to 124 is to be closed off. Please confirm.

Yes. The opening from room 122 to 124 shall be closed off. In addition, the PACS with scramble pad currently located at the door entering the data center room 136 from room 122 shall be relocated to the entrance of room 122 from the corridor.

9. During the site visit it was noted that the finishes for the new expanded area might change from match the existing to vinyl flooring and acoustical ceilings but to maintain the sound rated material installation for the walls. Please confirm.

Yes.

10. During the site visit we were advised that we could not take pictures but if we requested pictures via an RFI the VA would review the request with their OIT staff and if it was acceptable to provide photo(s) the VA would take the photos and send them out via an amendment. We would like to request photos of the existing server racks noting the front of the racks with the rack number and an internal (back) view or the same rack for noting the power configurations to each of the racks. We would also like photos of the existing UPS(s) and how they are tied into the racks to determine the ability to remove the existing

UPS(s), Battery Racks, Control/Monitoring Modules, and the In Rack Cooling system (both internally and from the front).

A disclosure stating that photos can and will only be used as it relates to this effort, that they cannot be disclosed in any other way, and that they cannot be used as completed work or anything else on any other effort will have to be agreed upon and signed during the site visit by contractors wishing to take photos.

11. During the site visit it was noted that we need to know a location for the condenser unit for the new computer room air conditioner and it was noted that the preferred location would be the roof where the existing condenser unit is located. Please confirm.

Contractor shall install exterior HVAC equipment on rooftop.

12. During the site visit a question came up about drawings for the existing servers and it was noted to request via an RFI. Can the VA provide the server layout drawings.

Server layout drawings attached.

13. Is it possible to get a power plan for the existing server rooms that shows the circuits that feed the equipment located in the floor space below the raised flooring, the circuiting for the Ansul system, the Computer Room Cooling Units, i.e., CRCU and the In Rack Cooling System.

Circuit diagrams not available but we require a new diagram after the upgrade is completed showing that these systems are in true redundancy and that every rack is fed from A and B sides.

14. Is it possible to get a copy of the as-built/record drawings for the fire alarm system.

These drawing are not available. However the existing fire suppression system was designed for only the rooms it currently serves. New tank, detectors, and pull stations will be required for room 122. Room 122 will also have to be its own fire zone and separate from the fire system in the existing data center.

15. Is it possible to get a copy of the HVAC as-built/record drawings for the server rooms and rooms 122, 122A, and 122 B.

These drawings are not available however a list of equipment is being attached which includes CRAC unit and InRowRCs.

16. Is it possible to get a copy of the plumbing plans for the server rooms and rooms 122, 122A, and 122 B.

As-built from building construction of mechanical for chilled water attached. Drawings may be dated. Contractor is expected to verify site conditions.

17. Is it possible to get a copy of the automatic fire protection system record drawings for rooms 122, 122A, and 122B.

These drawing are not available. However the existing fire suppression system was designed for only the rooms it currently serves. New tank, detectors, and pull stations will be required for room 122.

18. In order to verify the capacity available in Panels CDP, APC-UPS, and P1D can the VA provide the current loading information for these panels, i.e., amperes per phase.

Report on current in (A) vs time in (s) for all three panels and ATSS attached. Electrical study report for building also attached

19. In order to verify the capacity available for the existing automatic transfer switches can the VA provide the current loading information for MTS 1, and MTS 3.

Report on current in (A) vs time in (s) for all three panels and ATSS attached. Electrical study report for building also attached.

20. On page 3 of 5 paragraph 10 notes that the UPS(s) shall have dual feed from commercial power using different paths. Please confirm that the dual feeds shall be from the existing emergency generator system power distribution system and not from commercial power sources. In addition, please confirm that using a source off MTS 1 and MTS 3 will meet the noted requirement for a dual source or provide specific information on which sources are to be used.

The intent is not to add a second utility feeder into building, but to ensure that each UPS is fed from a different source within the building. One source shall come from electrical room 142 behind the canteen and the other shall come from electrical room 141 on the other side of the building.

Using a source off of ATS 1 (panel CDP) and ATS 3 (panel APC-UPS) is acceptable.

21. On page 3 of 5 paragraph 11 outlines the requirement to redistribute and feed redundant 30A three phase power whips to all existing racks currently installed in the A and B sides of the data center from two different UPS(s) providing two whips at each rack and provide 30 additional whips for future expansion. Please confirm the whips shall be 30A three phase and define a location for the 30 additional whips, i.e., expansion room 122 or areas where the existing UPS(s) are removed.

The additional whips will need to be 30 A three phase and will be installed in the racks that will be replacing the old UPS systems in the A and B side approximately 11 racks the rest will be left in the new room available to be used if needed with a capability to reach the farthest point in the A side.

22. On page 3 of 5 paragraph 20 notes the contractor shall provide proper cooling in Room 122 for the expansion equipment. We understand the air conditioning required for the room and the new UPS(s) but we will need some input from the VA on the heat load for the future equipment. Please provide an equipment listing for the future equipment or a heat load that we should design into the new computer room cooling unit (CRCU).

Two (2) Symetra PX 175KW UPS units scalable to 250KW or a compatible system shall be installed. The heat load shall account for this system installation to full capacity.

23. Can the VA provide as-built electrical drawings of the data center indicating which server racks are fed from which of the existing three UPS units? This will help us to determine how UPS power is currently distributed within the data center and if any power redundancy currently exists. This information is needed to properly describe phasing and construction method and approach for this Phase 1 proposal.

The existing diagram that was provided doesn't have the wipes mapped out. This is due to changes over the years and lack of documentation.

24. Page 19 of 80 on the Solicitation, note 22, requires new HVAC to use the existing building chilled water system, but also requires the new HVAC to be independent from the building. What is meant by this seemingly contradictory requirement?

This means an independent (from any AHU or VAV in the building) CRAC unit will be installed in the room to cool the space. This CRAC unit shall use chilled water as a primary cooling element. The CRAC unit shall be independent of any AHU in the building and uses chilled water from the building directly.

The existing HVAC in the room shall be removed without other areas being affected.

25. At the first site walk through we were not allowed to take pictures within the Data Center. Can The VA allow pictures to be taken inside the existing Data Center on the second site visit next week? Photos are extremely helpful to have to match existing conditions and preclude subsequent trips to reinvestigate the site of the work.

Yes. A disclosure stating that photos can and will only be used as it relates to this effort, cannot be disclosed in any other way, and cannot be used as completed work or anything else on any other effort will have to be agreed upon and signed during the site visit by contractors wishing to take photos.

26. Page 11 of the solicitation (Factor 3 – Relevant and Recent Past Performance, item 1h) indicates “past performance questionnaires shall be included in the offeror’s proposal”. Our firm has CPARS evaluations on file for several of our projects. Please confirm if CPARS may be used to satisfy the questionnaire requirement for Factor 3.

a. If firms may not use CPARS evaluations to satisfy Factor 3, please provide the Past Performance Questionnaire to be used. Upon review of the solicitation documents, we have been unable to locate a past performance questionnaire attachment.

CPARS are acceptable

Reference page 41 of the “Attachments to RFP” for “Contractor Relevant Past Experience” Form

Amendment A00004 Attachments

Description	Date	Pages
Electrical System Studies – Building 2500, Lakemont	May 27, 2011	154
Orlando Floor Layout – Data Center	December 10, 2015	2
Time-Current Curves – Load Report for panels APC-UPS, CDP, and PID	February 27, 2017	16
Mechanical Drawing M-3	October 31, 1989	1
Mechanical Drawing M-4	October 31, 1989	1
Mechanical Drawing M-5	October 31, 1989	1
Eaton Switchboard Drawings	Various	190
Schneider Electric – Equipment List	March 1, 2016	11
One-Line Diagram Building 2500 – As-Built E200	April 12, 2017	1
Site Visit Sign In Sheet	June 7, 2017	1