

- 1) Existing UPS size ratings on drawings: The drawings show 2 existing UPS systems for which new feeder and output boards are to be installed. The ratings of the two units on the drawings are 350 kVA and 500 kVA. During the site walk it was noted that these existing units are Galaxy PW UPSes which have a maximum rating of 225 KVA. Should the new work be sized appropriately to the drawings, or to the existing UPSes?
The existing UPS cabinets are outside the scope of this contract. The breakers and cabling are to be upgraded as shown on the drawings.
- 2) The specification includes section 26 33, static uninterruptible power supply yet there does not appear to be a UPS requirement on the drawings, is there a UPS requirement that is not shown?
This specification was included for the breakers and not a new UPS.
- 3) Which document takes precedence in the event of a conflict between the spec and the drawings? Specifically, the drawings show a single feed PDU on both the one line and the PDU schedules, but section 26 26 of the spec calls for a dual feed PDU.
The drawings are correct, the PDU's are single fed.
- 4) Is there a specification for the equipment racks and quantity of each?
The basis of design was to match existing 30 inch APC racks, with blanking panels for air management.
- 5) Are rack mounted power distribution units to be included with the equipment racks, and if so is there a specification and quantity?
The basis of design was to match existing APC racks, including 30 amp power supplies with metering and monitoring capability.
- 6) What is to be deducted in bid alternate #1, just the installation of the additional racks, or the actual racks themselves as well?
The bid alternate deduct includes both the installation and the racks themselves.
- 7) Can factory installed air containment be offered with the equipment racks in lieu of the air curtains?
Yes, the irregular row configuration and fire protection requirements need to be met.
- 8) Who is responsible for the data cabling for this project once the new cable tray is installed? The General Contractor or does the VA have a contractor to do this work?
The VA will be responsible for the data cabling.
- 9) Who has been doing the data work in the computer room in previous projects?
This information cannot be provided.
- 10) Specification 236400: there is no mention of any warranty requirements for the air-cooled chiller.
Warranty requirements for the chiller should fall under the general warranty requirements, specification 01 00 00 1.30 Warranty Management.
- 11) Specification 236400, 2.1, Paragraph I, and 2.7, A and B: is the condenser coil coatings and cabinet coating required since these units are located in a non-corrosive environment?
Section 2.7 can be removed/ignored. It is for high humidity locations, which Durham is not according to the VA HVAC design manual, and was inadvertently left in.

12) Question: Is the references to asbestos floor tile and mastic intended to be used if suspect material is encountered but abatement is not to be factored into the proposal?

Suspected asbestos is present on the loading dock waterproofing mastic. See drawing EP101, testing and abatement are required.

Reference:

The drawings appear to indicate that there should be no substantial floor demolition required. Asbestos quantities were not provided or specifically located in the bid documents

SECTION 02 82 13.19, ASBESTOS FLOOR TILE AND MASTIC ABATEMENT

B. Removal, clean-up and disposal of ACM tile in an appropriate regulated area in the following approximate quantities as shown on outside wall penetrations on drawing EP-101 and Keynote 22:

(1) square feet of tile and mastic

(1) square feet of tile

(1) square feet of mastic

DRAWING G001

13) RFI 1: Reference: Drawing EP511, Question: New feeder from Existing Generator Paralleling Switchboard to ATS-9 indicates being fed from a 1200A/3P circuit breaker that is not in bold text. It is assumed that this is an existing circuit breaker. Upon the site visit an existing 1200A circuit breaker was not found. There is (1) Cubicle in Section 7 indicated as "Spare", but it is only rated for 800 Amps. There are also some spaces, but it is not known if they are internally bussed.

Q1: Please confirm if one of the existing 1200 Amp Circuit Breakers is to be utilized and a new circuit breaker is not required.

Bidders shall supply and install a new 1200 amp frame and breaker in the spare.

14) RFI 2: Reference: Drawing EP511, Question: New feeder from Existing Normal Power Switchboard to ATS-9 indicates being fed from a 1200A/3P circuit breaker that is not in bold text. It is assumed that this is an existing circuit breaker. Upon the site visit an existing 1200A circuit breaker was not found and no spare circuit breakers were found. There was a section indicated as "Space", but it is not known if it is internally bussed.

Q1: Please confirm if one of the existing 1200 Amp Circuit Breakers is to be utilized and a new circuit break is not required.

Bidders shall supply and install a new 1200 amp frame, breaker and bussing in the space.

15) RFI 3: Reference: Drawing EP511 & EP111, Question: It is unclear to the scope of work associated with UPS1 Drawing EP511 indicates UPS1 as an existing 350 KVA UPS System. Drawing EP111 indicates UPS1 in Bold, which implies that it is new equipment. Key Note 2 on Drawing EP511 indicates UPS1 Input / Output Cabinet and Maintenance Bypass Switch to be existing. Based on the Site Visit and examination of Mechanical Room EB002A, there is an existing UPS System that Feeds 600A Panelboard UPS-D, but it does not appear to be large enough to support New 800A Panelboard UPD1. Existing Panelboard UPS-D has (3) Circuit Breakers spaces marked "Spare", one of which indicates "Gas Valve"

Q1 - Please confirm if UPS1 is existing to be re-used or if a new 350 KVA UPS is to be provided.
The existing UPS cabinets are outside the scope of this contract.

Q2 - If UPS1 is existing to be re-used, please confirm that it is a 350KVA Unit and capable of supporting the new 800A Panelboard UPD1.
The existing UPS cabinets are outside the scope of this contract. The installation is for the infrastructure not the UPS.

Q3 - Will any circuits originating from UPS-D need to be demolished or re-fed from another source, such as the "Gas Valves".
No.

16) RFI 4: Reference: Drawing EP112 & ET111, Specifications: 27 05 11, 27 05 61, 27 08 00, 27 10 10, 27 11 00 and 27 15 00, Question: Drawing EP112 indicates the new APC Racks and Drawing ET111 indicates a new Cable Tray System but any new Horizontal Cabling is not indicated. Division 27 Specifications are included in the Bid Documents, but the scope of work that they pertain to is not defined.

Q1. Will the VA be responsible for reworking the existing Structured Cabling / Horizontal Cabling and any new cabling required? If not, please provide a detailed "Cable Run List" to identify the scope of work.
See response to question 8 above.

Q2. Will the VA be responsible for disconnecting existing cables and removal the existing racks?
See response to question 8 above.

Q3. Has a sequencing plan been developed to maintain service during the rack replacement and will this work need to be performed after hours or weekends?
Coordination with the VA will be required and after hours or weekend work will be necessary.

Q4. If the VA is not self-performing this work, can a preferred Telecommunication Subcontractor list be provided of those who would be familiar with the scope of work?
A list of preferred telecommunication subcontractors is not available.

17) RFI 5: Reference: Drawing ET112 - Detail 2, Specifications: 27 05 11, 27 05 61, 27 08 00, 27 10 10, 27 11 00 and 27 15 00, Question: Drawing ET112 indicates the new Fiber Optic Cabling as part of a Deduct Alternate. However, the Data Room Fiber Optic Wiring detail does not indicate where the Fiber is to be run to from the (6) Switches.

Q1. Can a detailed "Cable Run List" be provided to specifically identify the scope of work of where all the fiber strands originate from and where they terminate?
This cabling would be to the existing WAN switch 1/2 row C.

18) RFI 6: Reference: Drawing EP611 and EL111, Question: Drawing EP611, Note 13 indicates providing new 20 Amp Circuits, but does not indicate new Circuit Breakers. Drawing EL111 indicates 2 circuits for each Lighting Homerun, but the fixture circuiting and switching configurations implies single circuits. This may be an indication of Neutral Switching Circuit Breakers.

Q1. Based on the Site Visit, there were not any spare 20A Circuit Breakers. Are we are to included new circuit breakers in Panel LM1?

Yes.

Q2. If were are to include new circuit breakers, will the breakers for Lighting Circuits A, B and C need to be of the Switch Neutral type?

No, these are single circuits not of the switched neutral type.

19) RFI 7: Reference: Drawing EP612 and EP613, Question: Drawings EP612 and EP613 do not indicate any new circuit breakers needed in the existing Power Distribution Units.

This is correct.

Q1. Are all the circuit breakers shown existing? If not, please identify in bold text, or a note, which ones will need to be added to the existing PDU's?

All existing PDU's include the circuit breakers.

20) RFI 8: Reference: Drawing EP614, Question: Drawings EP614 Notes indicate removing circuits no longer required and removing panels if no circuits remain. None of these panels are located on the bid document floor plans and none of the circuits are specifically indicated to be removed.

Q1. Without identifying any circuits or panels to be removed, there is not any way to provide pricing for this scope of work. Please identify which circuits or panels are to be removed, or provide us an allowance to carry until the actual requirements are determined?

The panel for removal is UPD1 shown on EP611. Circuits to be removed are called out in the notes on EP611.

The 5 panels on EP614 other than UPSD have circuits to the power supplies in the existing racks in the data center or under the computer floor. The majority of these circuits will be fed from the new PDU's. For bidding purposes the contractor shall include 10 circuits per panel, for a total of 50 circuits to be removed.

21) Question #1: Drawing MP101 provided Air Cooled Chillers. Specification section 23 64 00 is for Packaged Water Chillers. Which is correct and does a Specification Section for Air Cooled Chillers need to be provided?

Spec 23 64 00 covers the air cooled chillers, no other specs are needed.

Question #2: Please confirm detail 3/MP101 is new equipment pad for air cooled chillers CH-1, CH-2, and CH-3?

That's correct, the new equipment pad detail is for the chillers.

Reference Q1 & 2: DRAWING MP101

Question #3: Please confirm where noted COOL is in row cooler CO-1 quantity 8 new on sheet MP111?

That's correct, they should have been marked CO-1.

Question #4: On sheet MP111 is chilled water in room FG108 feeding an existing in row cooler or new CO-1?

The in-row cooler in FG108 is existing and to remain (though the plumbing is to be rerouted).



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Reference Q #3 – 4: DRAWING MP111

Question #5: 4. How many air curtains are there? Can an Air Curtain schedule and or specification section be provided?

The air curtains are flexible plastic divider walls rather than blowers sometimes used in doorways. There are two sections of air curtain, totaling approximately 125 linear feet of divider wall. No spec needed, use design basis from AE sheet. Provide a submittal for approval if an alternate product is desired.

DRAWING MH111

DRAWING AE103