

Question #	Question	Government Response
1	The specs require Arc flash labels to be provided with specific incident energies, but the specs do not require the study to provide the calculated values. Is the contractor to perform an overcurrent coordination/arc flash hazard study to determine the values to go on the arc flash labels? Will the incident energy values be provided by the VA's A/E or is the contractor required to hire an electrical engineer to perform the calculations?	The contractor shall perform an overcurrent coordination/arc flash hazard study to determine the values to go on the arc flash labels. The contractor shall provide the required calculations, signed and sealed by an Electrical Engineer licensed in the state of Georgia. All costs involved in preparing the calculations shall be the responsibility of the contractor.
2	ES102 – Electrical items associated with the HVAC unit are incomplete. What size components shall be assumed for the BID?	See revised ES102. HVAC equipment was specified on the Civil Drawings for this project. The unit specified was a wall mount Bard W12A2 unit – with a note to specify heat. Available options are nominal 3 KW or 5 KW electric heaters. Per a telephone conversation with the Civil Engineer, the unit will have 3 KW of heat. Electrical Equipment sizing will be a 20 amp, 2 pole circuit breaker in Panel "PP" with 2 # 12, 1 # 12 ground in 3/4" conduit to a 30 amp, 2 pole, NEMA 3R disconnect switch adjacent to the wall mounted A/C unit. Connect to A/C unit with 2 # 12, 1 # 12 ground in 3/4" liquid-tight flexible conduit.
3	Smoke detectors are shown on drawing CU301. These items don't appear to be addressed in the specs. What should happen when they detect smoke? What type of system are they connected to? Are there any remote annunciation requirements associated with the smoke detection system?	Building is generally unoccupied. Small Simplex Fire Alarm panel tied into the station's main Simplex Grinnell panel in Building 27 is required. Alarm signal is needed in the event of either excessive heat or smoke. Audible and Visual Alarm Signal in Pump Building, on Exterior of Pump Building and at Remote Location (Building 8 Fire Alarm System). Audible and Visual Alarm signal at remote location. Coordinate with Simplex Grinnell, station's fire alarm panel system. POC at Simplex is John Sawyer, Tel, 678-896-4090, Cell, 478-250-6546, email josawyer@simplexgrinnell.com
4	What should be provided to serve as the service entrance disconnect and overcurrent protection for the normal side of the ATS?	Either a Service Entrance rated, NEMA 4X, Isolation Bypass, Automatic Transfer Switch.
5	Where are the VFDs to be located on the CU301 layout?	VFD's are furnished with the packaged Pump Equipment and are to be mounted in the Equipment Control Panel furnished and installed with the packaged Pump Equipment.
6	Specs include Precast manholes with ladder and sump, however none appear to show up on the drawings. Are there any manholes in the project?	No need for a manhole.
7	ES102 and CU301 – Drawings appear to depict two different methods for mounting the transformer. Please clarify the mounting method desired for the transformer (wall or pad).	Dry Transformer Revised to 30 KVA, K13 Rated, Copper Wound. Floor Mounted
8	ES102 – Keynote 4 – where does the power for the panel inside the generator enclosure come from (feeder, conduit, feeder breaker, etc.)?	Service to Panel "GP" (Generator Panel) will be from Panel "PP". Refer to Revised One Line Diagram and Revised Panel Circuit Schedules.
9	The specs require that the generator set be provided with transfer pumps to transfer fuel between a separate remote main fuel tank and a nearby generator day tank. The plans don't appear to show a separate main fuel tank or associated fuel piping to a remote fuel tank. Are transfer pumps required? If so, what should they be connected to?	Generator Shall be Provided with a Double-Wall Sub-Base Fuel Tank. Generator Day Tank, Transfer Pumps, and Remote Main Fuel Tank are not Required. Specifications have been revised to include Double-Wall Sub-Base Fuel Tank and delete Generator Day Tank, Transfer Pumps, and Remote Main Fuel Tank.
10	The specs regarding main fuel tank refer to section 23 10 00 (the section was not included in documents). Is there a main fuel tank?	Main Fuel Tank Not Required. Section 23 10 00 not required

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11	The specs call for fuel flushing and testing per 23 10 00 (section not included). What are the flushing and testing requirements?	Fuel Flushing and Testing specified in new paragraph 2.5 Double-Wall Sub-Base Fuel Tank added to Section 26 32 13.
12	The specs call for 24hr day tank and the drawings call for a 96hr sub-base tank. There is a cost difference between the two sizes, which size is required?	A 96 Hour Sub-Base Fuel Tank is Required..
13	Drawing CU301 – shows a smaller, wall mounted ATS unit (does not appear to be of the bypass isolation type). Can the engineer clarify the ATS requirements? A bypass isolation draw out ATS, as noted in the specs, would be much larger, likely requiring a much larger footprint. The specs call for a 4" pad under the ATS but drawing CU301 depicts a wall-mounted unit. How will the ATS be installed?	Service Entrance rated, NEMA 4X, Isolation Bypass, Automatic Transfer Switch. Floor (Freestanding) mounted on exterior of Building. Provide a 6" high Concrete Housekeeping Pad for the Transfer Switch. Pad shall extend 3" on each side of transfer switch and a minimum of 48" and a maximum of 60" in from of transfer switch.
14	What raceway shall be provided for the underground fiber optic cable? The scaled drawings do not show both ending termination points for the fiber. What min. cable and raceway lengths should the bid include for the fiber optic run?	Provide (2) 2", concrete encased, schedule 40 PVC conduits. One conduit shall contain a 12 strand, single mode fiber optic cable. The second conduit will be a spare conduit. A 3 Cell, 3 Inch Per Cell, Fiber Mesh Innerduct shall be provided in each conduit. Termination point at pump building shown on drawing. Approximate location of serving termination point is in building 8. Refer to drawing ES101 for Approximate Location of Termination Point. Field Verify exact location. Provide a minimum of 25 feet of spare cablr at each end. Approximately 240 feet length run.
15	There is antenna attached to the existing water tower with cables running to a small portable building (with a window unit AC). Drawing CD102 calls for the relocation of the communication equipment (keynote 8). Does this note refer to the small portable building and antenna on the water tower?	Refer to Electrical Demolition Notes on Drawing ES101.. Turn over portable building and antennas to VA.
16	What electrical services/feeders shall be provided at the new tower location to accommodate the relocation of the communications equipment?	Refer to Electrical Demolition Notes on Drawing ES101
17	What is the scope associated with the existing portable building?	Turn over portable building and antennas to VA.
18	Many VA facilities own and operate their own MV electrical campus distribution. Who provides the "New Utility Transformer"? If utility, are there any metering requirements for the contractor? If the contractor is to provide, there are no specifications associated with the MV transformer (size, type, loop-feed, terminations, grounding, fusing). Who provides medium voltage primary to the "New Utility Transformer"?	Transformer to be provided by Contractor. No Utility Metering. Refer to new Specifications Section 26 12 19 - Pad Mounted, Liquid Filled, Medium Voltage Transformers. Contractor shall provide. Refer to One Line Diagram and Specification Section 26 05 13 - Medium Voltage Cables