

Construction of the Flight Projects Building  
Solicitation No. NNG12412656E  
Questions and Responses  
August 22, 2012

1. *Question: Are projection screens part of contract or an Owner provided item?*

**Response: Projection screens are an Owner provided item.**

2. *Question: Fire Extinguisher Cabinets – There are no specifications for fire extinguisher cabinets indicated on The Architectural Drawings A-101 through A-106 with Floor Plan Key Note 10. Specification 10 44 16 only indicates 5 lb extinguishers, which corresponds with Life Safety Drawings LS-010 through Key Notes 3 and 4. Please advise if FEC's are required. If so, please provide specification requirements for cabinets.*

**Response: There are FEC's as indicated on the Floor Plan Keynote No. 10. The cabinet shall be a 2 1/2" semi recessed Fire extinguisher cabinets similar to Larsen vertical duo door, SST.**

3. *Question: How are the Government Furnished ceiling projectors shown in acoustical ceiling tile on RCP's mounted to ceiling? Please provide detail(s).*

**Response: The General Contractor is responsible to coordinate.**

4. *Question: Drawing A-201a – R.C.P - Please confirm only one (1) projector will be installed in Room N107. Appears to show two (2).*

**Response: Confirmed there is one projector.**

5. *Question: Drawing A-912b – Please confirm there is a bench in Room S219. None shown, however, Elevation 3/A-933 is called out.*

**Response: Confirmed there is a bench as indicated in 3/A-933.**

6. *Question: Drawing A-932 /Elevation 3 – The SS1 backsplash is shown continuous between the credenzas. The PL1 panels also run continuous below and between the credenzas. Please provide a detail for the vertical joint between the PL1 panels, SS1 backsplash, and the horizontal joint between the PL1 panels and the SS1 backsplash.*

**Response: Both the vertical and horizontal joints are similar to 10/A-943 with a 1-5/8" x 3" x 1/8" SST metal "T".**

7. *Question: Drawing A-936/Elevation 5 – Please provide specification on S.S ML1 Hooks for Mail Bags.*

**Response: A utility hook similar to Grainger 4CRV5 capable of supporting large heavy duty canvas mailbags.**

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8. *Question: Display Cases: Please confirm that all display cases (Level 1 – Level 4) are to be priced in Bid Additive #3. Level 1 (A-911b) shows details 1-4/A-938. Levels 2-4 only show 3 & 4/A-938.*

**Response: Confirmed, all display cases are a bid additive.**

9. *Question: Please advise if interior of display case is constructed of wood or drywall. It appears to be wood covered with WC1 everywhere except at the column bump out (3/A-942). If it is wood, should column be covered with wood back panel with WC1, or should it remain drywall covered with WC1?*

**Response: The display case is gypsum board covered with wood. The column should be covered with gypsum and wrapped with wood.**

10. *Question: Drawing A-941/ Elevations 11 & 12 - Mail sorting cabinet. Please provide manufacturer/specification of the acrylic “trays” and guides that are noted. The acrylic trays appear to have a lip at the front and back, are they supposed to be custom? Are the guides to be plastic or metal u channels?*

**Response: The acrylic mailboxes are custom modular millwork similar to:**

- **Hamilton Sorter**
- **Neocase**
- **Modular Millwork**

**Please disregard the 3” on the note. It should read “3 tiers of sliding clear acrylic mail tray on side to side guides at ½” increments.” Either metal or plastic guides are acceptable.**

11. *Question: At the Pantry elevation 2/A933 and the detail for the plug mold panel 3/A941, will there be any outlet cut outs in the laminate?*

**Response: There are no cut outs in the laminate for detail 3/A-941. For clarification, please provide a wall receptacle for microwave oven opening in detail 1/A-941.**

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12. *Question: Specification Section 31 00 00, Paragraph 3.3 “ Borrow material from approved sources on Government-controlled land may be obtained...” Are there nearby sources on Government –controlled land?*

**Response: NASA has not identified any government controlled borrow sources.**

13. *Question: Specification Section 31 11 00, Paragraph 3.6.1 Nonsalable material, “Logs, stumps .....operations, except for salable timber, shall be disposed of outside the limits of Government –controlled land at Contractors expense. There are some large trees removed from this site. Confirm that the Government doesn’t expect any timber salvaged from these large trees. Confirm all timber materials will be hauled off Government property at no charge to the Government.*

**Response: Confirmed, timber salvage is not required.**

14. *Question: Specification 32,11,23 Aggregate Base Course a. Paragraph 3.5.4 - States the base course for each lift shall be placed 2 feet wider on all sides than the next higher layer. Since two lifts are required for the heavy duty section of 10" stone then the stone would extend 4 feet beyond the asphalt edge. Confirm that going to the back of the curb with stone is all that is required?*

**Response: Confirmed, the aggregate base shall be extended to the back of curb.**

*b. Paragraph 3.5.4 - Is the 2 foot required under the HMA base only? Confirm that extending the stone base in the HD paving section an additional 4' of stone beyond the asphalt edge and that extending the stone base in the Light Duty paving section is not required.*

**Response: Confirmed, the aggregate base may end at the face of the gutter/curb where a light duty paving section is indicated.**

*c. On the Chilled Water Line Plans, Sheet C-501; Section at Paved Roadway Detail: The stone base for the permanent patching is "10" Plant Mix Stabilized Aggregate Base Course". Confirm that what is required in cement treated stone base, since no specification clarifies your intent.*

**Response: Cement treated stone base is not required. Aggregate base meeting the plant mix requirements of section 32 11 23, section 3.5.1 is acceptable in all locations.**

15. *Question: Specification 32.12.16 HMA*

*a. Paragraph 2.1 - States the "nominal maximum aggregate size is 9.5 mm". This is a surface asphalt stone size and is not recommended for surfaces deeper than 3" Confirm that the mix design of 12.5 mm for base or 19 mm would be acceptable for the onsite work.*

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*Confirm that the Explorer Road mix design for the chiller interconnector of 25 mm base and 12.5 mm surface is acceptable and both are approved mix designs for the MDSHA.*

**Response: A 9.5mm aggregate size restriction is required for surface course only, and shall apply to all surface course installations. Maximum base course aggregate sizes shall be governed by MDSHA/Superpave requirements.**

*b. Confirm that the geotechnical report regarding asphalt mix designs confuses the plans and specification and are not to be considered.*

**Response: The pavement installation shall be as indicated by the plans and specification.**

*16. Question: The specification references Prime Coat; however, no paving section indicates a prime coat. Also, MDSHA which is also referred to has deleted prime coat requirements. Confirm that no prime coat is required for the asphalt drives and parking areas.*

**Response: Confirmed, no prime coat is required.**

*17. Question: Will visitor's center be accessible for Monday's bid without a Visitor's Badge? Or, do we need to submit a request for Visitor's Badge?*

**Response: Visitor Badge is not required. Visitor's Center is accessible to public.**

*18. Question: It is apparent that the Commissioning Specialist (Cx) is the responsibility and will be paid by the Contractor. Please confirm that the Commissioning Authority (CxA) will be the responsibility and be paid by the Government (per Section 019113-1.1.a.1.A)*

**Response: Yes. Confirmed**

*19. Question: Specification section 09 90 00 Paints and Wall coverings, specifies that the painter must be SSPC QP-1 Certified. Since this is a commercial project, please consider waiving this requirement.*

**Response: Agree. The reference to SSPC QP-1 (applies to industrial and marine coatings) certification should be ignored.**

*20. Question: What is the finish of the material for the wood trim 1/4" x 1-1/2" on top of the frame at the interior side of the closet doors at detail 12/A946?*

**Response: Provide wood trim to match storage room door, WD1.**

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*21. Question: Mail sorting cabinet per details 11 & 12/A-941 show clear acrylic trays. Please provide specification for this material. Please detail the front and back of the trays, as they appear to have a “lip”. Clarify if the guides are plastic or metal.*

**Response: The acrylic mailboxes are custom modular millwork similar to:**

- **Hamilton Sorter**
- **Neocase**
- **Modular Millwork**

**Please disregard the 3” on the note. It should read “3 tiers of sliding clear acrylic mail tray on side to side guides at ½” increments.” Either metal or plastic guides are acceptable.**

*22. Question: Specification Section 33-63-13: Thermal Performance Testing 1.2.12 Paragraph does not provide sufficient information or guidance to quantify thus provide cost for such testing. Further it is not typical to current NASA/GSFC UHDS specifications nor typical to the industry standards. In general, Specification 336313 differs significantly from current NASA/GSFC UHDS specifications.*

**Response: This specification has been updated and issued through IFB Amendment 6 on August 20, 2012.**

*23. Question: Per specification section 10 22 19 and drawing A-802 Partition types, the thickness of the demountable partitions is to be 4”. Several manufacturers that otherwise meet the specified requirements have partitions that are less than 4” thick. Please confirm that it is acceptable to have a minimum partition thickness of 3-5/8”.*

**Response: Confirmed this is acceptable. The General Contractor is required to coordinate with all trades as required.**

*24. Question: Sheet A-802 demountable partition types state that S1 and T1 are demountable walls. Are there any other walls to be considered a part of the demountable wall scope in this project?*

**Response: Confirmed, the 2 wall types indicated in A-802 are the demountables.**

*25. Question: Sheet A-802 demountable sections show seismic bracing in a connection to the underside of the deck. Shall demountable walls on this project be priced to include seismic bracing at all locations as it is not necessary per local building codes.*

**Response: Demountables shall be attached to the ceiling per manufacturers requirements and the requirements in spec section 10 22 19.**

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26. *Question: Please confirm that the electric inside the demountable wall scope does include the electrical back box, internal amp device, conduit, and trim rings?*

**Response: Confirmed. The General Contractor is responsible for coordination and providing a fully functional system.**

27. *Question: It is our interpretation that all demountable partitions on Levels 1-4 are 10'-0" high to connect to the underside of a 2'x2' ACT ceiling grid. Is this correct?*

**Response: Correct, all demountables are 10'-0" and are within the ACT as indicated in the documents.**

28. *Question: At all base building window connection points where demountable walls occur, please confirm the ceiling height of the bulkhead.*

**Response: The ceiling heights are as indicated on the A-200 series drawings.**

29. *Question: Door Schedule A811-A812 calls out hardware sets 500 & 100 to be used in the demountable doors. Door hardware specifications call for all door hardware to be by Best. Can you provide a more specific hardware description? Or is it acceptable to use factory standard cylindrical lever lockset and passage-set hardware at demountable partition door locations?*

**Response: No this is not acceptable. Use the specified hardware sets indicated in spec section 08 71 00.**

30. *Question: We have interpreted the finish on the frames to be anodized aluminum. Is that correct?*

**Response: Confirmed it is anodized aluminum.**

31. *Question: It is our interpretation that formaldehyde free substrates are to be included throughout the demountable scope of work. Is this correct?*

**Response: Confirmed, as indicated on spec section 10 22 19, 2.1.**

32. *Question: It is our interpretation that all demountable doors shall be finished in "WD1" wood veneer, plain sliced cherry to match architect's sample. Is it acceptable to use a manufacture standard veneer?*

**Response: It is acceptable if the manufacturer's standard veneer is an acceptable match to the architect's sample.**

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33. *Question: Where, if any, shall monitor locations occur where they will be mounted within the demountable walls and a cut out in the tile should be included? Please reference room numbers or plans.*

**Response: Monitors within the demountable walls are indicated on the A-910 series drawings and where elevation 4/A-937 is tagged.**

34. *Question: It is our interpretation that monitors and technology supported inside or on the face of the demountable walls shall be provided by others. Please confirm.*

**Response: Confirmed this will be provided by others.**

35. *Question: Is the temporary construction fence to meet spec section 01 50 00 3.4.3 or 01 50 00 3.7? If neither, please provide a specification or drawing details.*

**Response: The temporary construction fencing on C106 is the typical 6" chain link fence. Installation can be a combination of driven posts and concrete surface blocks. There is no requirement for barbed wire or slats.**

36. *Question: Structural Drawings indicate that the building is considered seismic category B which typically means no seismic is required. However, miscellaneous details and/or specification sections indicate further reference to seismic details. Examples are Detail 3 on drawing M-502 as well specification section 23 82 45 paragraph 1.8. Please confirm that seismic is not required.*

**Response: Seismic Design Category B classification in accordance with IBC-2009 and ASCE 7-05 as indicated on Sheet S-001 is correct. Per Section 1613.1 of IBC-2009, "Every structure, and portion thereof, including nonstructural components that are permanently attached to structures and their supports and attachments, shall be designed and constructed to resist the effects of earthquake motions in accordance with ASCE 7." ASCE 7-05 Section 13.1.3 requires seismic bracing for the following components as they relate to this project, "The component is required to function for life-safety purposes after an earthquake, including fire protection sprinkler systems." ASCE 7-05 Section 13.1.4 exempts the following components from seismic bracing requirements, "Mechanical and electrical components in Seismic Design Category B." Section 8.12.13 of the NASA Code 220 Standard Reference Document (SRD) for Facilities indicates that MEP "Component design requirements shall be determined in accordance with IBC."**

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37. *Question: Details 11 &12/A941 at the Mail sorting cabinet*

- a. *Provide manufacturer of the acrylic “trays” and the guides that is noted.*
- b. *Provide a specification for these “trays” that we can manufacturer to?*
- c. *Are the guides to be plastic or metal u channels?*

**Response: The acrylic mailboxes are custom modular millwork similar to:**

- **Hamilton Sorter**
- **Neocase**
- **Modular Millwork**

**Please disregard the 3” on the note. It should read “3 tiers of sliding clear acrylic mail tray on side to side guides at ½” increments.” Either metal or plastic guides are acceptable.**

38. *Question: Pantry elevation 2/A933 and the detail for the plug mold panel 3/A941, will there be any out let cut outs in the laminate?*

**Response: There are no cut outs in the laminate for detail 3/A-941. For clarification, please provide a wall receptacle for microwave oven opening in detail 1/A-941.**

39. *Question: 075200 – Modified Bituminous Membrane Roofing*

- a. *Please confirm substrate board will not be required, due to a 0 hour fire rating.*

**Response: Confirm, it is not required.**

- b. *Please confirm vapor barrier is not required.*

**Response: Confirmed, it is not required.**

- c. *Please confirm that flood coat of asphalt with embedded aggregate is not required.*

**Response: Confirmed, it is not required.**

40. *Question: Drawing M-705 Chilled Beam Zonal Controls schematic refers to valve, V-3 Automatic Isolation Valve. The Hydronic Riser Diagram on Drawing M-601 also shows a zonal automatic isolation valve. Please verify this is the same valve and that the total quantity for the project is eight.*

**Response: Confirmed, this is correct.**

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*41. Question: Does the specification 23 07 00 dated January 23,2012 take precedence over the one dated July 16, 2012 ?*

**Response: Yes, the July 16, 2012 takes precedence.**

*42. Question: Is specification section 22 07 19 irrelevant?*

**Response: No it's not irrelevant. Plumbing systems listed in paragraph 2.9 and 2.10 are required to be insulated as indicated.**

*43. Question: Questions and answers dated August 16, 2012 states that fiberglass insulation can be used on all heating water and chilled water piping. Is this still the case or do I defer to one of the aforementioned spec. sections (23 07 00).*

**Response: Confirmed, fiberglass can be used for all heating water and chilled water piping.**

*44. Question: Will the temporary fencing be just a typical 6' chain link fence as described in response to the RFI with just regular driven posts (no concrete footers, barbed wire, or windscreen)? Also, will the fencing material be removed by and returned to the fencing subcontractor at the end of the construction duration.*

**Response: Yes, the temporary construction fencing on C106 is the typical 6" chain link fence. Installation can be a combination of driven posts and concrete surface blocks. There is no requirement for barbed wire or slats.**

*45. Question: The F1 light fixtures are 4" wide recessed fixtures in the conference rooms. There is no detail for how it fits in the acoustical ceiling. Is it acceptable to accommodate these by running grid mains on each side of the lights? Can the resulting 4" x 2' acoustical ceiling tile needed be field cut or should it be special order? (Ref: E-104a; A-204B)*

**Response: Confirmed this is acceptable.**

*46. Question: On a structural note, there is a lintel schedule for steel and masonry on S001 but I don't see a schedule for light gauge box beams/sills/jambes for windows in metal panels. Could one be provided?*

**Response: Please reference Specification 05 40 00 Part 1.2.d, "Shop drawings and engineering calculations shall be stamped and sealed by a professional engineer in the state of Maryland." Please reference Sheet S-001, Light-Gauge Steel Framing Note 2, "The engineering of all cold-formed steel framing, including their connections and bracing, shall be the responsibility of the contractor's specialty engineer and shall**

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**conform to the 2007 AISI "Specification for the Design of Cold-Formed Steel Structural Members."**

*47. Question: Please provide wall types for interior heads for vestibules and for conference rooms for the conference rooms near the main Stair on floors 2-4*

**Response: The head condition for the curtain wall at the main vestibule is illustrated in detail 1/A-508. Similar detail shall be provided for the conference rooms on floors 2<sup>nd</sup>-4<sup>th</sup>. Bottom of the top mullion should align with the ceiling @ 12'-1/2".**

*48. Question: An exterior wall section of the stairs through the metal panel walls with a detail of the head of the wall is needed.*

**Response: The metal panel parapet detail for Stair #1 # 2 is similar to detail 7/A611. The top of parapet is 1'-8" from top of Stair Roof Slab.**

*49. Question: At the Mail sorting cabinet details 11 &12/A941 please have the architect provide manufacturer of the acrylic "trays" and the guides that is noted. The acrylic trays appear to have a lip at the front and back, are they supposed to be custom? Is there a spec for these that we can manufacturer to that spec? Are the guides to be plastic or metal u channels?*

**Response: The acrylic mailboxes are custom modular millwork similar to:**

- **Hamilton Sorter**
- **Neocase**
- **Modular Millwork**

**Please disregard the 3" on the note. It should read "3 tiers of sliding clear acrylic mail tray on side to side guides at 1/2" increments." The guides may be either plastic or metal.**

*50. Question: At the Pantry elevation 2/A933 and the detail for the plug mold panel 3/A941, will there be any out let cut outs in the laminate?*

**Response: There are no cut outs in the laminate for detail 3/A-941. For clarification, please provide a wall receptacle for microwave oven opening in detail 1/A-941.**

*51. Question: Concerning the following Specs:*

- *Div 064116, 2.6-a. Hinges – the hinge degree opening listed is 135 degree, however our Hinge manufacturer has the following opening angles - 107°, 110°, 120°, 170°. We provide either 120 or 170 degree. Is the 170 degree acceptable to exceed the requirement?*

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**Response: Yes, a 170 degree hinge is acceptable.**

- *Div 064116, 2.5 Edge Banding – the PVC 3mm & 1mm edge banding for the cabinetry is fine for the PL2 & PL3 colors, however, the PL1 which is a Gloss finish (for the Symposium credenza's) will not match after this material is cut through the banding machining. A thinner matching tape edge band will work bes. It minimizes the thickness of the laminate surface at the edges of the faces. Will the thinner .018 PVC tape be acceptable here at these cabinets only?*

**Response: A 0.018 PVC tape will be acceptable at these locations only.**

- *DIV 064116, 2.10-1.1 Cabinet Components – Please have architect confirm that the cabinets for this project will not be face frame style, but European construction. Therefore, all the notes for lumber and face frame verbage is to be excluded. This is true for the 2.10-1.2,b. section for joinery at 'End corner and Face Frame attachment' to be deleted.*

**Response: Confirmed, it is European construction no face frame style.**

- *Div 064116, 2.10.2 Cabinet Floor Base – typically the base platforms are constructed of ¾" Plywood members, will this be acceptable?*

**Response: Provide cabinet floor base as indicated on spec section 06 41 16.00 10, 2.10.2 and sheet A-941.**

52. *Question: The Wood Paneling details on SHT A945 need some clarification:*

- *Please have architect state the finish intent of WD1 paneling – is it to be veneer with solid wood edge bands that are visible or is the overall intent to be all smooth veneer – a clean uniform look. The notes on the details pose this question to be asked because the 2 finishes have cost impacts on how to manufacture these panels. The notes on details 5&6/A945 say “. . . veneer, finish with solid wood edges”. And 10/A945 is showing corners with lock miter 'solid' wood edges. Is the architect suggesting the solid wood edges to be covered by the veneer? If so, this is not recommended for veneered panels. The solid wood edge will move over time and cause the 'solid' wood to be apparent within time, creating a bump or linear ripple. If the solid wood is applied up against the veneer, which will show the direction of the lumber clearly, is this the architect's intent, if so, what is the solid wood edge band thickness to be around the panels, 1/8" or 1/4"?*

*Note: using solid wood edging increases the value of the paneling. If the architect is looking for a smooth even look, then no solid wood edging should be mentioned.*

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**Response: The design intent is to have non-visible solid wood edge bands that match the veneer for a clean uniform look.**

53. *Question: The Symposium room doors C211,a,b, & c:*

- *The detail shows an applied WD1 panel on top of the solid core door, see 12/A946. This door needs to be solid core door (one piece) due to several concerns:*
  - *The pivot hardware is only configure for one door and through one manufacturer.*
  - *The 'balance' of the door is in accordance to the door & cabinetry industry so there will not be any warping/bowing*
  - *Door warranty will stay intact*
  - *The framing should come from the door manufacturer as well to set up the pivot closure machining*

**Response: This is acceptable.**

54. *What is the finish of the material for the little wood trim 1/4" x 1-1/2" on top of the frame at the interior side of the closet doors at detail 12/A946*

**Response: Provide wood trim to match storage room door.**

55. *Question: Ductile iron is specified for the underground chilled water system. In specification section 33 61 00, 2.2.1, it talks about the ductile specified for this project. I do not see what class (51, 52 and so on) the pipe has to be in the specification. We will need "class" of the ductile pipe in order to price the job.*

**Response: It is A21.51.**

56. *Question: What cabling needs to be pulled to the manhole for building services?*

**Response: Refer to drawing E-600 for electrical service cable requirements. Telecommunications cabling is not part of this contract.**

57. *Question: Who will be completing the splicing of said cables in the manhole?*

**Response: Splicing of electrical cables in the manhole is the General Contractor's responsibility. Telecommunications cabling and related splicing is not part of this contract.**

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58. *Question: Are there any specs on the equipment in the main telecom room or the IDF rooms for cabling terminations on each floor?*

**Response: Telecommunications cabling is not a part of this contract.**

59. *Question: Are there any specs on the type of cable and jacks being run on the horizontal levels of each floor?*

**Response: Telecommunications cabling is not a part of this contract.**

60. *Question: Are there any specs for providing patch cables for the data?*

**Response: Data cabling is not a part of this contract.**

61. *Question: Are there any specs for cross connecting the voice cabling?*

**Response: Telecommunications cabling is not a part of this contract.**

62. *Question: Drawing M-503 detail # 13 shows a In-Line pump for the outside air units. The pump schedule does not list any pumps for these units. Please clarify.*

**Response: Detail #13 on M503 applies to the ACS units heating water coils, disregard the reference to 100% outside air. Detail #7 on M504 indicates two (2) ACS heating water coils and two (2) chilled water coils per ACS unit. Pipe each coil per the respective detail on M503. Size ACS heating water pumps for the respective coil flow rate and with sufficient head to overcome the pipe and fittings and coil water pressure drop of the submitted equipment. ACS heating water pumps shall be BACnet controlled and shall run when the outside air temperature is below 40 degrees Fahrenheit (adjustable). The ACS heating water pumps shall be off when the outside air temperature is above 45 degrees Fahrenheit (adjustable). The Contractor may propose one heating water pump for both heating water coils per ACS unit. Similarly, there is one (1) control valve for both heating water coils per ACS unit, however, the Contractor shall provide a separate control valve for each chilled water coil.**

63. *Question: Drawing M-601 detail for Pump Room C110 shows a flash tank before the condensate enters the pump. The schedule on drawing M-007 lists 4 flash tanks. Please clarify where the remaining 3 tanks are located.*

**Response: There are 4 steam condensate receivers in the building. Each flash tank associates with a receiver. They are for the steam station, HWC001, Domestic water heater and steam humidifiers at two ACS units.**

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*64. Question: In reference to: 24. Question; In reference to section 26 (Electrical); the Variable Frequency Drives (VFDs), what are the appropriate Harmonic requirements for the project? Response: Harmonic requirements for the VFDs are found in spec section 26.29.23.21. The specification says the following: Line noise shall be limited to that specified by ANSI/IEEE 519. Point of common coupling shall be the bus from which the VFD is fed. SECTION 26 29 23.21 Page 4 This paragraph is very subjective. Is the system a 5%, 8%, 12% or 15% system at the point of common coupling? Please ask the appropriate person if they have a specific harmonic limit percentage that is to be met. This is important in selecting the most correct solution for mitigation.*

**Response: Line noise shall be limited to 8% Total Harmonic Distortion (THD) at the point of common coupling.**

*65. Question: Could you specify power requirement for temporary power: Point of connection, voltage available (medium or low), how many amperes? are we responsible for connecting trailers? How many trailers, Hoist, tower cranes, welders? Is temporary Heating electrical or mechanical, if electrical how many KW's? etc.*

**Response: The General Contractor is responsible for coordinating and providing all temporary power. NASA will make reasonable amounts of electricity available to the General Contractor at 13.8KV and a maximum 1500KVA. The contractor shall be responsible for connecting to the GSFC electrical distribution system at power manhole PMH33 and extending temporary power to the project site as required. The contractor shall provide all medium voltage cabling, transformers, medium and low voltage electrical distribution equipment and cabling as required to provide temporary power to the construction trailers, building, cranes, and other equipment related to the construction of the facility. All work shall be performed in accordance with the National Electrical Code.**

*66. Question: Section 3.4.3 Operator Training II lists a requirement of 16 hours of instruction per student, with a potential of 15 students. This would require us to include 30 DAYS of training for just this one section. Please advise.*

**Response: This should be interpreted to be 16 hrs of instruction. Up to 15 students will be taught at the same time. So this would only take two days.**

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**POTENTIAL BIDDERS**

**The cut-off date to submit questions to the Contracting Officer was Tuesday August 21, 2012 by twelve (12) noon. This allowed the Government time to ensure that all questions have been answered and posted through the Government Websites (NASA/FedBizOps) in a timely manner before the bid opening date of August, 27, 2012.**

**[End of Questions/Responses]**