

**FY04 Upgrade of the Heated Tube Facility, Building 109**  
**Responses to Bidder Questions**  
**1/21/05**

- 1. The implementation plan states that the roofing material is contaminated with mercury. However, neither the plan or specs state what training requirements are needed by the contractor's employees. Please advise what if any training requirements are needed.** *Employees shall have 40-hour HAZWOPER training in accordance with 29 CFR 1910.120(e) Hazardous Waste Site Operations Program.*
  
- 2. Per page A-4 of Appendix A, Building 109 is to be occupied. It appears no personnel are assigned to Bldg. 109. Will this be a safe practice considering the roof rework, interior welding of steel supports, and other related construction activities?** *Building 109 will not have permanent residents during the construction period. However, the research customer will be actively working within the project limits near the end of the construction period. Therefore, coordination during this period is required. Please see the "Special Issues: General" paragraph on page A-6 for details.*
  
- 3. Is the soil under the existing floor inside of Bldg. 109 considered contaminated? Will plumbers need to have 40hr Hazwopper training?** *Please see page A-11 of Appendix A for discussion of the floor excavation in Room 103 for the floor drain installation. Plumbers will be required to have 40-hour HAZWOPER training.*
  
- 4. Are the "ROTEX" wall sealers part of the base bid considering they need placed in the masonry or are they part of Option #3-Cable Trays?** *Addendum #1, Item 8, states, "All wall seals (ROXTEC Sealing System or approved equal) shown throughout the package and conduit wall penetrations shown on CF-198163-198165 shall be in the Base Bid."*
  
- 5. Is the wall sealer for the bus duct part of the base bid or part of Option #5-Power Supply?** *This wall seal, provided by the bus duct manufacturer, is part of Option #5.*
  
- 6. Drawing CF-197703 refers to "DRYBOND" as part of the concrete wall. Please expand on this product. Did NASA mean "DRYLOCK"?** *The term "DRYBOND" is incorrect. The correct term is "DRY-BLOCK", and it is a water repellent admixture manufactured by W.R. Grace. It is added to the manufacturing process of the masonry units so that they repel water and prevent mold and efflorescence. It is also used as an admixture in the mortar.*
  
- 7. Please identify the existing roof system and any associated hazards.** *The existing roof system is described on drawing SK DEMO-A1. There are hazardous materials associated with the existing roof. Refer to the notes on drawings CF-197700 and SK DEMO-A1, specification sections 13281 and 13282, and the Environmental section of Appendix A for information regarding these hazardous materials.*

**8. Can EMT conduit be used inside the non hazardous rooms #100, 102, 103 &104?** *Specification section 16145, paragraph 3.1, states “Conduit and raceway runs concealed in or behind walls, above ceilings, or exposed on walls and ceilings 1470 millimeter or more above finished floors and not subject to mechanical damage may be electrical metallic tubing (EMT). All proposed uses of EMT shall be approved by the COTR before starting installation.” For indoor applications in these non-hazardous rooms, EMT shall be acceptable unless another conduit type is specified on the contract drawings.*

**9. Drawing #198162, note 7, refers to grd. bus detail on dwg. #198173. There is no detail, please advise.** *Note 7 on CF-198162 directs the Contractor to “see drawing CF-198173” for further information. This drawing shows the connection of the ground bus and the symbol used can be referenced back to CF-198172 for a specification of the ground bus (Harger #GB114212X).*

**10. Drawing #198177, various details call for contractor wiring to customer supplied contacts. Please provide location of these contacts.** *The exact locations of these contacts are not finalized at this time. For bidding purposes, please assume that these contacts are located in a PLC I/O cabinet on the east wall of the Control Room 100.*

**11. There are items shown on the mechanical P&ID drawings that indicate electrical wiring requirements. The electrical work is not shown on the electrical plan drawings. Is this work going to be performed at a later date under a different contract? An example would be the fan flow switches on dwg. #198151. If this wiring was to be installed as part of the electrical work scope the contractor would need details such as conduit and wire sizes, quantities, to and from destinations, etc. This information should show on electrical installation drawings. Please advise.** *Electrical wiring of process instrumentation shown on the mechanical P&ID drawings shall be performed by others. It is not in this contract.*

**12. In reference to above question #11, is NASA intending for the wiring to all process instrumentation and tubing being installed by the mechanical contractor under various options to be installed as future work utilizing the cable tray systems installed under option #3?** *Electrical wiring of process instrumentation shall be performed by others. It will be installed utilizing the cable tray systems installed under Option #3. Process tubing installed by the mechanical contractor under various Options shall be installed as specifically laid out on drawings CF-198157, CF-198158 (all sheets), and CF-198159 (all sheets). The cable tray systems are for electrical systems only and process piping/tubing shall not be installed in the tray systems.*

**13. Drawing #198176, note 20, is the disconnect switch for the sewer pump furnished by the mechanical or the electrical contractor?** *It is the prime contractor’s responsibility to coordinate the purchasing of equipment between subcontractors. CF-197721 specifies that the pump motor disconnect switch shall be a factory supplied NEMA 4X stainless steel enclosure switch.*

**14. Drawing #198176, note 24, please clarify the scope of work for the fire alarm air compressor. Is it new or existing? Is it furnished by the mech. or the electrical as part of the fire alarm package?** *The air compressor is new and is a component of the new dry-pipe sprinkler system for the building. It shall be submitted with the other fire protection system components and installation details shall be included on the fire protection shop drawings. Typically this equipment is provided and installed by the fire protection contractor. It is typically wired by the electrical contractor.*

**15. Drawing #198167, note 7, please provide details and a description for the type of flexible connections that are to be furnished by contractor.** *These shall meet the specifications listed in the note and shall be required to connect to the existing test chamber terminations. They shall be supplied by the bus duct manufacturer such that the power feed between the power supply and the test chamber is supplied as a complete system. Contact Unibus, Inc., for further information.*

**16. Are the concrete floors in bldg. 109 need to be sandblasted prior to applying epoxy paint to the floor? Can you list the room numbers that take epoxy paint?** *Refer to specification section 09920, paragraph 3.3 (Surface Preparation), for details regarding preparation of the floor for sealer. Also, follow manufacturer's instructions for surface preparation and application. Sandblasting is not desired. See the Mercury Abatement portion of the Environmental section of Appendix A for information regarding mercury contamination in some concrete floor corners, cracks, and drains. Refer to the Room Finish Schedule on CF-197706 for the list of rooms and their finish requirements.*

**17. Can you refer us to the drawing numbers where “plastic laminates and cabinets” need to be installed (SPEC. Section: 06200)?** *There are no plastic laminates or cabinets as described in section 06200 to be installed.*

**18. Can you refer us to the drawing number or layout of “the Acoustic Ceiling with Exposed Grid” (SPEC. Section: 09514)? Can you specify the rooms that will take acoustic ceiling? SPEC. Section 09514 requires the ceiling tiles to be 2x2 while the light fixtures are 2x4. Please advise.** *There are no rooms that require an acoustic ceiling with exposed grid.*

**19. SPEC. Section 08331 calls for “Overhead Coiling Doors”; can you suggest a manufacturer name and/or an equal?** *Several manufacturers are acceptable, such as Windsor Door Therma-A-Guard (BMIL International, Inc.), Cookson, and Wayne Dalton.*

**20. Can you post the list of attendees to the site visit?** *The list will be posted.*

**21. Is sealing the concrete floors included as part of Option 1 or the Base Bid?** *Sealing the concrete floors is included in the Base Bid.*