DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND, PACIFIC
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Notice No. 13
2 August 2016

PRE-PROPOSAL QUESTIONS & ANSWERS

SOLICITATION N62742-16-R-1309
FY16 MCAF PROJECT P-3028/AJJY133028 LOW OBSERVABLE/CORROSION CONTROL/COMPOSITEREPAIR SHOP, JOINT REGION MARIANAS-ANDERSEN AIR FORCE BASE, GUAM

NOTE: The following question and answer is provided for INFORMATION ONLY. The solicitation remains unchanged unless it is amended in writing on a Standard Form 30.

The Government may not respond to questions submitted less than 10 days before the proposal receipt due date.

81. Who owns the batch plant on base?

ANSWER: The Government will not provide a batch plant. The contractor will be responsible for all concrete production requirements. See Amendment 0004.

82. Who is responsible for maintaining/repairing the batch plant in case of mechanical failure?

ANSWER: The Government will not provide a batch plant. The contractor will be responsible for all concrete production requirements. See Amendment 0004.

160. Section 11 50 13 – Component Paint Spray Booth:

Reference to Specification Section 11 50 13 "Component Paint Booth" and Specification Revisions on Amendment 0003, below are some questions and clarification from Component Paint Booth manufacturer/supplier as follows;

- Par. 1.2 References: Should "UFC 3-410-04n Design: Industrial Ventilation" reference be added Reference list?
- Par. 1.4.4.d Structural Performance Requirements: Please confirm if a safety ladder to the top of the booth and handrails around the top of the booth are required?
- Par. 1.7 Coordination: Should a remote explosion proof strobe and audible alarm be located in the Paint Spray Booth to indicate CO & Fire Alarms?
- Par. 1.8 Warranty: Does this include all parts and service – to include normal wear items, like – paint filters, lights, fan belts?

- Par. 2.1.1 Spray Booth Construction: a. Should walls be covered with a peelable paint to protect the smoothness of the booth and minimize paint build up on the walls and ceiling? b. Should the floor be covered with a fire retardant paper and double taped to minimize the paint build up on the floors?
- Par. 2.2 Emergency Shut-Down: a. Booth is to be provided with 2 man doors with viewing windows and two work doors. One limit switch for work door and 1 limit switch per man door? b. Each man door to be provided with an emergency exit light with Battery back Up?
- Par. 2.3 Lighting: 100 foot candles to be measured 3 ft off the floor?
- Par. 2.4.5 Testing Specifications: a. Transmitters to be located down stream of each differential pressure drop and displayed on the main control panel touch screen? b. High set point / statics shall alarm @ the Touch Screen?
- Par. 2.5.1.a Control Panel: Supply AMU to have VFD to assist in maintain the required Booth negative static pressure and 100 fpm air flow. Both the AMU and Exhaust VFDs will ramp up or down to maintain both of these parameters?
- Par. 2.5.1.f Control Panel: a. High set points for Temperature and Humidity shall alarm @ the Main Control Panel? b. Please confirm that E stop (mushroom type) and manual light switch are to be located inside the booth – making each of them Explosion Proof fixtures and wiring?
- Par. 2.5.1.h Control Panel: Should control panel have filtered – removable exhaust fans in the panel to keep the control panel cool?
- Par. 2.6.1 Housing: Permatector is a Trademark of Greenheck's Powder Coat system, request a coating of equal protection be allowed?
- Par. 2.6.4 Exhaust Fan Motors: Motor to be equipped with an hour meter to assist in scheduled Maintenance of the motor and other equipment?
- Par. 2.7.1 Heating, Ventilation & Air-conditioning: a. Smoke detectors are to be terminated where and provide an alarm to where? b. Fire Suppression (ABC Type) to be installed in each exhaust duct? c. All motors to have separate disconnects with lock out/tag out?
- Par. 3.1b Installation: Should manual include 1 year recommended spare parts listing / priced?
- Par. 3.1d Installation: Does this include all parts and service – to include normal wear items, like – paint filters, lights?
- What are the performance and acceptance criteria for the Paint Spray Booth?
- What are the TAB requirements for the Paint Spray Booth?

ANSWER:

1. Yes, this can be added. Amendment forthcoming.
2. Amendment forthcoming.
3. Fire alarms (inclusive of CO alarms) are provided and installed per specification 28 31 76 and fire alarm drawings.
4. Normal wear items are not included in the warranty coverage.
5. a. Provide booth manufacturer's standard finish for interior surfaces.
   b. floor coverings will be per user standard operating procedures.

6. a. Provide a limit switch for each door. Doors shown on drawing A-101.
   b. Provide emergency lighting per specification 11 50 13 para 2.3.
7. Yes.
8. a. Yes, provide an indication of pressure drop for each filter stage.
   b. Yes, provide an alarm for high pressure drop.
9. Yes, the makeup air unit and exhaust fan should track together to maintain negative pressurization setpoint for the booth.
10. a. Yes.
    b. Provide emergency shutdown switch and light switch in the booth per 11 50 13 2.5.1.f and 2.5.1.h.6 respectively.
11. The control panel shall be designed by manufacturer to operate in the environment which it is located.
12. Yes, provide a polyester urethane powder coat coating or equal.
13. Hour meter may be included if provided as part of manufacturer's standard offering.
14. a. Fire initiating devices are provided and installed per specification 28 31 76 and fire alarm drawings.
    b. Fire suppression is provided and installed per specification 21 13 13.00 20 and fire suppression drawings.
    c. Motors shall be installed per National Electrical Code. Provide disconnecting means per NEC. Motors shall have the capability of being Locked Out/Tagged Out.
15. Refer to specification 01 78 23 for requirements of operation and maintenance data to be provided in a forthcoming amendment.
16. No, normal wear items are not included.
17. A fully functional paint booth that meets the cross-sectional velocity provided in the specification.
18. Obtain specified cross-sectional velocity in booth with filtration in place and all air handling equipment operating at normal conditions.

161. Section 11 50 19 – Sand & Dust Booths:

Reference to Specification Section 11 50 16 "Sand & Dust Booths" and Specification Revisions on Amendment 0003, below are some questions and clarification from Sand & Dust Booths manufacturer/supplier as follows;

- Par. 1.4.1.1 Sanding & Dust Booths: Booth system shall be a recirculated air system. Is there a Sound Attenuation requirement for this application? Recirculating approx. 17, 000 cfm back into the same room will generate a high dBA reading – will a silencer between the recirculating blower and the HEPA filter be required?

- Par. 1.4.2 Sanding & Dust Booth Filtration Systems:
  a. Will the HEPA filter enclosure, approx. 6' wide x 6' tall, require a diffuser upstream of the HEPA filter as well as a Pre-filter to process 17,150 cfm?
  b. Fans should be selected based on min. 140 cfm cross draft air flow @ full static for the Cartridge filters and HEPA filters – making the initial clean filter cfm much higher?
- Par. 1.4.3 Supervisory Control System:
  a. Booth operations shall cease (air supply to sanders / vacuum operations / blow off air) upon failure of the recirculating fans?
  b. Recirculating fans will immediately shut down in the event of a fire alarm?
- Par. 1.7 Coordination:
  a. Should a remote explosion proof strobe and audible alarm be located in the Sanding and Dust Booth to indicate CO and Fire Alarms?
  b. How many utility air drops, breathing air drop and vacuum ports will be required for the sanding and dust booth?
- Par. 1.8 Warranty: Does this include all parts and service – to include normal wear items, like – cartridge filters, HEPA filters, lights?
- Par. 2.2.1 Booth Construction**:**
  a. What color should the booth exterior and interior be painted?
  b. Is the booth required to comply with the Section 09.96.00 High Performance Coatings – 2 coats epoxy primer and 1 top coat polyurethane?
- Par. 2.3.3 Wiring: Power for the lights are usually located in the main control panel for the equipment. Are we NOT to pull power from our control panel and run power from the electrical equipment room for the lights?
- Par. 2.3.4 Sanding & Dust Collection Modules:
  a. Sanding can generate static electricity – how did you want us to address the arrestor or suppression of statics?
  b. Is any fire suppression in the return vent piping / HEPA filter required?
- Par. 2.3.4.1 Sanding & Dust Booth Control: Should starters for Recirculating fans, pulse board for solenoids/ diaphragms and E stop on front of Panel be added?
- Par. 2.4 Recirculation Fans: Permatector is a Trademark of Greenheck's Powder Coat system, request a coating of equal protection be allowed?
- Par. 2.4.3 Recirculation Fan Motors: Motor to be equipped with an hour meter to assist in scheduled Maintenance of the motor and other equipment?
- Par. 2.6.1 Housing: Permatector is a Trademark of Greenheck's Powder Coat system, request a coating of equal protection be allowed?
- Par. 2.6.4 Exhaust Fan Motors: Motor to be equipped with an hour meter to assist in scheduled Maintenance of the motor and other equipment?
- Par. 3.1 Installation: Should manual include 1 year recommended spare parts listing / priced?
- What are the performance and acceptance criteria for the Sanding and Dust Booth?
- What are the TAB requirements for the Sanding and Dust Booth?

ANSWER:

1. Provide manufacturer's standard booth noise control measures. Provide manufacturer's standard booth noise control measures.
2. a. Provide filter cabinets/enclosures and accessories as required for a complete and operational Sanding & Dust Booth.
   b. The booth airflow velocity of 140 FPM is a nominal design value.
3. a. Yes.
   b. Yes, upon receiving a signal from the fire alarm system per FA602.
4. a. Fire alarms (inclusive of CO alarms) are provided and installed per specification 28 31 76 and fire alarm drawings.
   b. Utility drops have been provided in the space in which the booth is located. No utility drops are required in the Sanding & Dust Booth.
5. No, normal wear items are not included.
6. a. White.
   b. No, provide manufacturer's standard finishes.
7. Lights can be served from booth control panel.
8. a. Provide grounding per manufacturer's recommendation. Provide #2 AWG grounding conductor from Sanding & Dust Booth to counterpoise.
   b. Fire suppression is provided and installed per specification 21 13 13.00 20 and fire suppression drawings.
9. Contractor shall be responsible for complete and operational system. The contractor shall be responsible for all components required for a complete and operational system.
10. Yes, provide a polyester urethane powder coat coating or equal.
11. Hour meter may be included if provided as part of manufacturer's standard offering.
12. See response to item #10 above.
13. See response to item #11 above.
14. Refer to specification 01 78 23 for requirements of operation and maintenance data to be provided and also see future amendment.
15. Meet specified booth cross-sectional velocity at a dirty filter condition.
16. Verify that recirculation fan is providing the specified booth cross-sectional velocity while operating at a dirty filter condition.

162 Section 13 21 15 – Decontamination Air Showers:

Reference to Specification Section 13 21 15 "Decontamination Air Showers", below are some questions and clarification from the manufacturer/supplier as follows;

- Par. 1.3.1 Air Shower:
  a. Are these the overall dimensions including control / filters / blower – 7'10" tall x 4'-7" wide x 4'-7" deep.? Many other units are made in even Feet dimensions – and are much either taller or wider to mount the items previously mentioned.
  b. There is only ONE unit required for location 123 – air shower, although 111 PPE / 117 Comp Decon and 122 Decon indicate some type of clean or air shower?
  c. Is there an approved list of suppliers or a standard "air shower" being requested?

ANSWER:
a. Amendment forthcoming.
b. Each of these spaces have the same air shower as indicated on the plans.
c. There is no list of suppliers; the shower must meet the specification requirements.

163. Section 11 50 10 – Paint Spray Booths

Reference to Specification Section 11 50 10 "Paint Spray Booths" and Specification Revisions on Amendment 0003, below are some questions and clarification from Paint Booths manufacturer/supplier as follows;

- Par. 1.10.3 Maintenance Access items: Contractor to provide (2) safety access ladders to the top of the booth with handrails around the perimeter of the booth?
- Par. 2.2.1 Construction:
  a. Should walls be covered with a peelable paint to protect the smoothness of the booth and minimize paint build up on the walls and ceiling?
  b. Should the floor be covered with a fire retardant paper and double taped to minimize the paint build up on the floors?
- Par. 2.3.2 Air Flow System:
  a. Confirming that total CFM @ 75 fpm is 131,175 cfm vs valves indicated on drawing M-607?
  b. What is the minimum and maximum negative pressure expected during operations?
  c. Is booth to shut-down if negative pressure parameters are not maintained?
- Par. 2.3.3 Heating, Ventilating & Air Conditioning: Has ERV technology been considered and would it be a viable option?
- Par. 2.4.21 Protective Coatings: Is the booth required to comply with the Section 09.96.00 High Performance Coatings – 2 coats epoxy primer and 1 top coat polyurethane?

- Par. 2.5 Paint Booth Electrical Equipment & Systems:
  a. Should read as "Interlock paint spray nozzles with both ventilation system and light fixture lenses and door limit switches."
  b. Should E Stops be explosion proof?
  c. Should explosion – proof CO strobes be included inside the paint booth?
  d. Provide Emergency Exit lights over each man door – with battery backups?
- Par. 3.3 Testing: Is equipment to be NRTL tested and certified?
- Par. 3.3.1 Performance Testing:
  a. What are the specific performance and acceptance criteria for the spray booth?
  b. What are the TAB requirements for the spray booth?

ANSWER:

1. Provide access ladders as required so that all equipment and fixtures requiring maintenance may be serviced.
2. a. See paragraph 2.2.1 for wall finish.
2. b. Floor coverings will be per user standard operating procedures.
3. a. Airflow values listed on M-607 are correct for the cross-sectional area of the booth insert indicated on A-302.
   b. Maintain approximately 850 cfm supply/exhaust difference as indicated on M607. See paragraph 2.3.7 of 11 50 10.
4. Provide energy recovery as indicated in paragraph 2.3.14 of 11 50 10.
5. No.
6. a. Shop compressed air interlocks shall be per 11 50 10 Paragraphs 2.3.9 and 2.3.9.1
   b. E-stops shall be suitable for the hazardous location where installed.
   c. Fire alarms (inclusive of CO alarms) are provided and installed per specification 28 31 76 and fire alarm drawings.
   d. Provide per paragraph 2.2.5 of 11 50 10.
7. Equipment shall be tested as specified.
8. a. Per paragraph 3.3 of 11 50 10, booth manufacturer shall provide acceptance procedures to the Contracting Officer. Per paragraph 3.3.1, Paint Booth Contractor shall submit specific requirements which are being certified.
8. b. Verify cross sectional velocities for all modes of operation are obtained in the booth.

164. Section 11 50 16 – Component PMB Booth:

Reference to Specification Section 11 50 16 "Component Plastic Media Blast Booth" and Specification Revisions on Amendment 0003, below are additional questions and clarification from Component Plastic Media Blast Booth manufacturer/supplier as follows;

- Par. 1.2 References: Should "UFC 3-410-04N Design: Industrial Ventilation" reference be added the Reference list?
- Par. 1.4.3 Supervisory Control Systems: Should blasting operations shutdown immediately when the door is opened?
- Par. 1.7 Coordination: Should a remote explosion proof strobe and audible alarm be located in the blast booth to indicate CO and Fire Alarms?
- Par. 1.8 Warranty: Does this include all parts and service – to include normal wear items, like – blast nozzles, hose coupling gaskets, hose couplings, blast hose, blast helmet lenses?
- Par. 2.2.1 PMB Booth Construction:
  a. To comply with proper loadings – blast booth walls and roof should be built with 10 Gauge steel.
  b. Please confirm if a safety ladder to the top of the booth and handrails around the top of the booth are required?
  c. What color should the booth exterior and interior be painted?
  d. Is the booth required to comply with the Section 09.96.00 High Performance Coatings – 2 coats epoxy primer and 1 top coat polyurethane?
- Par. 2.3 Emergency Shut-Down: Should a solenoid valve be added to the compressed air (1-½") line upstream of the blast pot for the same purpose?
- Par. 2.4.1 Fixtures: Can lights be installed for exterior access in lieu of interior access?
- Par. 2.5 Exhaust Filtration System:
  a. Please make the appropriate drawing and specification changes to reflect the location, equipment size, compressed air, electrical service and vent piping.
  b. Please provide the explosive dust test reports for this application?
  c. Blast booth vent piping to dust collector to be 2 runs of 20" diameter each?
  d. HEPA filter enclosure to be 8' wide x 4' tall, will diffuser and pre filter be required upstream of HEPA filter?
- 2.6.1 Controls Panels:
  a. Please add motor starters for main booth and reclaim motor dust collector and control voltage for dust collector pulse board / diaphragms and compressed air solenoid shutoff valves for blast and utility air.
  b. Please confirm that E stop (mushroom type) and manual light switch are to be located inside the booth – making each of them Explosion Proof fixtures and wiring?

- 3.1 Installation:
  a. Should manual include 1 year recommended spare parts listing / priced?
  b. Should training consist of three days – 1-day classroom room training (review theory / process and each component / review manuals) 1 day hands on training and third day assist in developing operator checklist, maintenance checklist and standard start up / shutdown and emergency shutdown procedures. as well as witness the operation of the booth by the operators for 8 hours?
- Start Up / Test
  a. Who is providing the blast media for test?
  b. What are the performance and acceptance criteria for the blast booth?
  c. What are the TAB requirements for the blast booth?

ANSWER:

1. Yes, this can be added. See forthcoming amendment.
2. Yes.
3. Fire alarms (inclusive of CO alarms) are provided and installed per specification 28 31 76 and fire alarm drawings.
4. Normal wear items are not included in the warranty coverage.
5. a. Booth Vendor to design booth construction to meet specified structural performance requirements.
   b. Yes, see future amendment.
   c. White.
   d. No.
6. Provide if needed to shut off airflow to PMB Booth guns.
7. Lights shall be accessible from inside the booth.
8. a. See Amendment #4.
   b. See Amendment #4.
   c. See Amendment #4. Duct to be sized by PMB Booth manufacturer.
   d. See Amendment #4. Provide PMB Booth manufacturer's standard design for final stage filtering.
9. a. The contractor shall be responsible to provide a complete and operational PMB booth. Contractors shall provide all equipment and components for this.
   b. E-stop and light switch shall be located inside booth and be rated for hazardous environment installed.
10. a. Refer to specification 01 78 23 for requirements of operation and maintenance data to be provided and also see future amendment.
    b. Provide training per paragraph 3.1 of 11 50 16.

11. a. PMB Booth manufacturer to provide test and operation charge of media. At the conclusion of testing an operational charge of media shall be provided.
    b. Provide the specified cross-sectional velocity in the PMB booth and operational blast reclaim, dust collection/filtration, and blast delivery systems. Also verify that all utility provisions as specified are operational.
    c. Verify that the exhaust fan is providing the specified booth cross-sectional velocity while the reclaim and dust collections systems are in operation.