



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND, PACIFIC
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PEARL HARBOR, HI 96860-3134

Notice No. 2
19 December 2014

PRE-PROPOSAL QUESTIONS & ANSWERS
RFP NO. N62742-15-R-1308

FY15 P-1551 (DESC 1551) UPGRADE FIRE SUPPRESSION AND VENTILATION
SYSTEMS RED HILL FUEL STORAGE FACILITY AT THE NAVAL SUPPLY FLEET
LOGISTICS CENTER JOINT BASE PEARL HARBOR-HICKAM, PEARL HARBOR,
HAWAII

NOTE: The following questions and answers are provided for INFORMATION ONLY. The RFP remains unchanged unless it is amended in writing on a Standard Form 30.

25. There appear to be new light poles on sheets ES102 and ES103. The lighting schedule for the pole is on sheet ES601. Please advise regarding the pole height, material/finish, and wattage of the LED luminaire is required?

ANSWER: Pole shall be 20' aluminum with black finish. Luminaire shall be 50W. Additional info has been added to sheet ES601. Please refer to amendment no. 0004.

26. Reference: SPEC SECTION 28.31.76 INTERIOR FIRE ALARM AND MASS NOTIFICATION SYSTEM

- Page 2 Paragraph 1.2.1.d Devices shall be rated for a Class 1, Division 2 environment where indicated.
- Page 15 Paragraph 2.11.1 Addressable smoke detectors are not offered that comply with 1.2.1.d.
- Page 16 Paragraph 2.11.2 Addressable smoke detectors are not offered that comply with 1.2.1.d.
- Page 17 Paragraph 2.12.1 Addressable heat detectors are not offered that comply with 1.2.1.d.
- Page 28 Paragraph 2.21.1 See attached data sheet showing rated fire alarm speakers recently installed in this facility.
- Page 28 Paragraph 2.21.2 See attached data sheet showing rated fire alarm strobes recently installed in this facility.

Suggestions:

Addressable devices that comply with 1.2.1.d are not offered by fire alarm equipment manufacturers. Conventional four wire smoke detectors that are rated for this application are available but do not have the features that are required in the specification. This is true for spot smoke detectors and duct smoke detectors.

Addressable devices that comply with 1.2.1.d are not offered by fire alarm equipment manufacturers. Conventional rate compensated thermal detectors that are rated for this application are available but do not have the features that are required in the specification.

Rated notification voice appliances have recently been installed the pump room and Gauger station.

Rated notification visual appliances have recently been installed the pump room and Gauger station.

Please review the following / attached products pertaining to products that comply with the design intent.

Provide Class 1, Division 2 conventional 4 wire smoke detectors and monitor with modules from the fire alarm control panel. See attached data sheet for more information.

Provide Class 1, Division 2 conventional thermal detectors and monitor with modules from the fire alarm control panel. See attached data sheet for more information.

As noted on the data sheet for the strobe devices the current draw is 700 ma but the in rush current is 2 amp. In order to accommodate the in rush current only two visual devices can be installed on a typical notification fire alarm circuit. This limitation will require the installation of additional notification power supplies and dedicated 120 VAC circuits.

Please review with the engineer and advise if existing power supply is sufficient to accommodate such devices, otherwise we respectfully ask the engineer to provide revised plans via amendment indicating adequate power supply / sources.

ANSWER: Devices shall be Class 1 Division 2 in the locations as shown on the drawings. The specifications have been revised as part of Amendment 0004 to address the questions above. Where addressable, Class 1, Division 2 devices are not available, the following shall be used: Class 1, Division 2, conventional devices with an addressable module in an explosion proof enclosure, refer to Amendment 0005.

27. Specification section 02 82 16.00 20, Engineering Control of Asbestos Containing Materials is included as part of the RFP. We have been unable to find any Hazmat drawings or Hazmat survey conducted on this project. Is it anticipated that the contractor will encounter Hazmat on this project? If so, is there a Hazmat survey that is available to the bidders?

ANSWER: Response deferred.

28. The specifications 07 14 00 – 2.12 calls for Polystyrene Foam insulation for the fluid applied roofing. On the plans (C4/A-600) it is calling for tapered EPS. Since the roof of the pump building is structurally sloped, do we need tapered EPS or would flat stock work? Additionally, is there a minimum or average R value for this insulation? Finally, is the new tank expected to receive insulation as well?

ANSWER: Flat stock is acceptable, minimum R-value shall be added to the specifications. Both shall be added as part of a future amendment.

29. Access to the location for the new 250,000 Gallon water reservoir has been difficult in the past. How will the gate be controlled to allow normal construction traffic flow while building this tank? Will gate security be required by the contractor of NAVFAC?

ANSWER: The contractor will need to check out a key from FISC for this gate. The contractor will be responsible for opening/closing the gate.

30. Section 28 31 76. Existing fire alarm system components are located above the rain catchment roof in Zones 70 through 73, is it the intent to have the new smoke and heat detectors located below or above the catchment roof?

ANSWER: The intent is that the rain catchment will become a concealed space, thus detectors and sprinklers will not be required in the area above the rain catchment system.

31. Is the electric chain hoist at Adit 3 available for use by the contractor on this project and if so what certification does the operator need to have for this use?

ANSWER: See response to Question #10. Also refer to Amendment 0003.

32. Can excavated material be disposed of on-site?

ANSWER: Specification section 31 23 00.00 20 (amd 0002) para 3.11 states "remove from Government property surplus or other soil material not required or suitable..."

33. Section 05 50 14. Does the rain catchment ceiling in the electrical room in Area 74 need to be extended to the walls similar to the other ceilings?

ANSWER: No, this area does not require rain catchment extension as shown on MT106. This area shall be served by a wet pipe fire sprinkler system, in accordance with NFPA 13 as called for on FT142.

34. Section, 05 50 14, Sheet MT 301 - There is no detail shown for the section where cross tunnels at tanks 17/18 and 19/20 intersect with the main tunnel. Is it the intent to extend a vertical stainless sheeting to the tunnel roof from the existing catchment roof to seal those sections?

ANSWER: Yes, the intent is that the rain catchment system extend vertically to the tunnel ceiling at all four sides. Added note to these areas as part of Amendment 0004.

35. Electrical Temp Power. RFP Page 15 of 17- Paragraph 1.163- States that “When available” the government will furnish reasonable amounts of power and water at prevailing rates at the time of use. Working in the tunnel will require that considerable power will be needed to operate drills, demolition tools, pumps, etc. How much power will be available for such uses?

ANSWER: See response to question no. 7.

36. Sheet E-001 Notes 19 states that “All electrical equipment exposed or installed in the upper tunnel shall be . . . NEMA 4X wet location rated.” Since virtually all electrical equipment is exposed is it the intent of this note for the contractor to investigate the status of all equipment and upgrade all installations not meeting the requirements of this note?

ANSWER: Contractor is not required to investigate nor replace existing equipment. Only all new installation performed by the Contractor shall comply with this note.

37. Sheet E-001 Note 34 states that “All electrical equipment exposed located within the lower tunnels, including but not limited to . . .” shall be explosion proof. Is it the intent of this note to have the contractor inventory all equipment in the lower tunnels to verify condition and upgrade as necessary to meet this note?

ANSWER: Contractor is not required to inventory nor upgrade existing equipment. Only all new installation performed by the Contractor shall comply with this note.

38. Sheet E-001 Site Electrical General Notes note 10 states that electrical ducts may have been treated with banned pesticides that will require special treatment. Specifically which substances are anticipated and how long ago so that we may better assess the needed measures to mitigate the hazard.

ANSWER: Note is only to serve as a caution. Specific use of pesticides has not been confirmed. This requirement shall be included as part of Amendment 0005. The age of the electrical system can be determined from the as-built sent in Amendment 0003.

39. Specification section 01 14 00 Paragraph 1.4.3- states that passes will normally be issued within 20 days. Are these the full release with FLCPH proximity badges so that workers can start in the tunnel?

ANSWER: Response deferred.

40. Drawing ST-001 Notes for Sequence of Construction Operations for Compartmentalization Walls Note D- calls for use of fast setting and slow setting resin grouts in the rock bolt holes. Past testing of rock bolts in the basalts in Red Hill have shown that resin grouts have a much higher failure rate than cement grouted bolts. Is cement grout an option for these rock bolts?

ANSWER: Provide fully encapsulated resin grouted rock anchors as specified and as indicated.

41. Drawing ST-001 Notes for Sequence of Construction Operations for oil Pressure Resistant Bulkhead Note G- calls for use of fast setting and slow setting resin grouts in the rock bolt holes. Past testing of rock bolts in the basalts in Red Hill have shown that resin grouts have a much higher failure rate than cement grouted bolts. Is cement grout an option for these rock bolts?

ANSWER: Provide fully encapsulated resin grouted rock anchors as specified and as indicated.

42. Drawing MT-301 Detail 1- Due to extreme undulations in the tunnel walls the end panels will need to be cut to fit the walls in order to limit the gap to less than 4". The proposed detail appears to show a channel supporting the ends of the panels. Is it acceptable to penetrate the panels with support rods to carry the end details?

ANSWER: It is acceptable to penetrate the panels with support rods to carry the end details. The rods shall not leave a gap greater than 4", as shown on the detail drawings. See amendment no. 0005.

43. Drawing MT-301 Detail 1- On the gutter end of the roof the extension appears to go through the gutter. Is it the intent that the extension drain to the gutter or is the gutter being replaced by the extension?

ANSWER: The gutter-side extension shall slope away from the gutter as shown in the detail. Any water that falls upon the gutter-side extension shall drain down to the tunnel floor, as shown on the detail drawings.

44. Drawing MT-301 Detail 1- On the gutter end of the roof the extension appears to go through the gutter. Is it the intent that the extension drain to the gutter or is the gutter being replaced by the extension?

ANSWER: See response to question no. 43.

45. Drawing C-501 Detail C-4 Note 1 calls for waterline backfill to be a lightweight grout with a slump of 10+/-2". This grout will not stand on the slopes called for from station 0+80 to the Upper Road. Is there an alternate backfill material for this line?

ANSWER: To reduce the weight of the backfill it is essential that a lightweight grout as specified be used. It is the contractor's responsibility to develop means and methods of backfilling the trench with the light weight grout.

46. Sheet 279 drawing MT001 indicates a new sump pit at a door plan left of tank 17/18 . This sump pit is not detailed or depicted on the structural or architectural drawings. Please provide detail.

ANSWER: Sheet 279 (MT003) indicates a new sump pit at tanks 17/18. This is shown on MT112. MT001 does not indicate the new sump pit.

47. Sheet 266 drawing MS102 indicates a concrete ditch for spills and rain water transportation to the sump pits. Please provide a detail for this ditch and the connection to the sumps.

ANSWER: This ditch shall be removed as part of Amendment 0004.

48. Sheet 270 drawing MS502 indicates concrete drainage sumps. These pits are not detailed in the structural drawings. Please provide details for the footing and walls.

ANSWER: The details for the footing and walls shall be as shown on the structural drawing detail in the tunnel drawing, Detail 1, ST301.

49. Are steel bollards required around the generator or electrical transformers outside the fire pump building?

ANSWER: Steel bollards will be required. See Amendment 0004 for Civil drawing CU102 for details.

50. Please provide a concrete material PSI for the concrete pavement work.

ANSWER: 3,500 psi, refer to 32 16 13, Concrete Sidewalks, Para 2.1.

51. Please verify that the concrete swale on sheet 62 drawing CG102 is by "Others" and is not part of this solicitation.

ANSWER: This shall be revised as part of Amendment 0004. This will be included as part of this project and not by others.

52. Sheet 241 drawing FT503 detail 2 indicates a concrete wall for the fire protection standpipe connections. This wall is not detailed in the structural drawings. Please provide details for the wall and footing.

ANSWER: Additional details will be provided as part of Amendment 0004.

53. Sheet 266 drawing MS102 indicates two drain lines extending from sump number 2. Sheet 60 drawing CU103 does not indicate site utility extensions to these lines similar to sump number 1. Please provide routing of the site utility drain lines for the tank and sump number 2.

ANSWER: These drain lines will be removed as part of Amendment 0004.

54. Section 33-16-15 Para 1.2.4 (Coating Certification) states the a fusion bonded epoxy shall be used for the interior tank coating in order to conform with NSF/ANSI 61, unless an alternate coating is used which is both protected by sacrificial anodes and in compliance with NSF/ANSI 61. Para 2.2.1.7 (Coating for Bolted Tanks), however, clearly calls for a glass-fused to steel ceramic coating (in white) and an interior glass-fused to steel coating in titanium white. Drawing SS001 (Reservoir Structural Notes) General Note D also states that the water tank shall be a glass-fused bolted steel tank conforming to AWWA-D103 and NFPA-22.

Please confirm that Para 1.2.4 was incorrectly applied and that the correct/required coating system for the Water Storage Tank is a ceramic factory applied glass-fused to steel coating.

ANSWER: Correct, paragraph 1.2.4 shall be removed as part of Amendment 0004.

55. Section 33-16-15 Para 2.2.1.4 Ladder, Stairs and Safety Devices states that the tank ladders must be in compliance with Sections 5.4 and 5.5 of AWWA D103. These AWWA D103 sections cover both interior and exterior vertical ladder requirements for bolted steel water tanks and assure compliance with minimum OSHA 1910 Standards. The bolted glass-fused steel tank manufacturers utilize vertical steel ladders on their tanks with required safety cages, rest platforms etc. No exterior stairs are covered by the cited AWWA D103 Sections. The sentences in Para 2.2.1.4, however, appear to be reference API-650 type tanks. They appear to call for exterior stairs, rather than ladders, for the water storage tank. Drawing SS101 also suggests that stairs, rather than ladders, should be installed on the water storage tank.

Please confirm that the manufacturer's standard vertical hot dipped galvanized steel ladder system with all required safety cages, landings and rest platforms will be satisfactory for the Water Storage Tank.

ANSWER: For water reservoir, interior tank access shall be Stainless Steel ladder as noted on SS101. Exterior tank access shall be hot-dipped galvanized steel stairs (not ladder) per Section 2.2.1.4 of Spec 33 16 15 and as shown on SS101.

56. Section 33-16-15 Para 1.2.3 (Reservoir) states that the reservoir may have a supported cone roof which is sloped to drain toward the outer shell. Drawing SS101 also suggests a

column supported cone roof. These references are common for API-650 type tanks, however, the bolted glass-fused steel tank manufacturers utilize an aluminum dome roof for tanks having diameters greater than 31'. The structurally supported aluminum dome is approved by Section 13 in AWWA D103 and NFPA 22. It is sloped to the outer shell, plus it includes flashing and counter flashing to prevent rain water from entering the water tank.

Please confirm that an aluminum dome, as permitted by Section 13 in AWWA D103 and NFPA 22 will be satisfactory for the Water Storage Tank.

ANSWER: Aluminum dome shall be allowed and shall be added to the specifications as part of Amendment 0004. A dome roof per AWWA D103 is acceptable provided it can adequately support all design loads specified in the contract documents.

57. Sheet ST501 Detail 2- shows the train rail on the back of the W6 beams spanning the trench at the compartmentalization doors but does not provide a detail for how it is to be mounted. Is it to be welded to the beams?

ANSWER: Weld rails to W6 beams with 2 inch long ¼" fillet welds at 12" max each side of each rail, drawings to be revised as part of a future amendment.

58. Reference Document 00202 Factor 1 – Recent, Relevant Experience: (a) Basis of Evaluation: Criteria 2. This section lists specific experience requirements for the firm that is to install the fire protection system. To our knowledge, there is not a firm within the State of Hawaii or the mainland that would have two projects that comply with all these requirements. In order to promote competition for the Fire Protection scope of work while protecting the Government's interest in evaluating qualified contractors we respectfully propose the minimum requirements of criteria 2 to be revised as listed below. The revised portions have been bolded. Offeror shall have past experiences on a minimum of two (2) projects involving the construction or renovation of fire protection systems including early detection, fire pumps, aqueous film-forming foam (AFFF) suppression or high expansion foam systems in facilities with petroleum fuel hazards or other special hazard classifications that were completed or substantially completed within the past 10 years. Approximate dollar value of the complete fire protection systems, excluding fire alarm and mass notification systems, shall be \$2.0M or more. Projects must have been performed by the specific firm identified in the proposal as the firm performing the fire protection system projects.

ANSWER: Amendment no. 0003 revised Document 00202.

59. General Notes on Drawing C-001, Site Preparation – Waterline "A" notes 1 & 2, state the Rockfall Contractor is to be pre-qualified. Furthermore, Note 2 states that the Rockfall Contractor shall meet and demonstrate specific requirements at the time of bidding. However the Evaluation Factors for Award, as outlined in Document 00202, do not provide an avenue for this information to be submitted to NAVFAC for evaluation purposes. Please advise if the qualification data for the Rockfall Contractor is to be provided by the Offerors in the RFP proposal response for this solicitation and if so which Factor it shall be included.

ANSWER: Response deferred.

60. Under Technical Evaluation Factors, paragraph 2.3, Factor 1, Criteria 1, the RFP indicates that the offeror needs to demonstrate two (2) projects involving the construction and/or renovation of facilities with petroleum fuel hazards and that each shall be approximately \$20M or more and completed within the past 10 years. Please consider revising the contract threshold for these projects to \$3M or more in an effort to ensure that the Government will receive an adequate number of proposals for the work. By limiting the size to \$20M or more, the Government is excluding very qualified firms from submitting proposals.

ANSWER: Amendment no. 0003 revised Document 00202.

61. Under Technical Evaluation Factors, paragraph 2.3, Factor 1, Criteria 1, the RFP indicates that the offeror needs to demonstrate two (2) projects involving the construction and/or renovation of facilities with petroleum fuel hazards and that each shall be approximately \$20M or more and completed within the past 10 years. Please consider revising the language in this requirement to allow contractors with experience in the Red Hill tunnels to qualify by adding language such as “Contractors with two previous projects in the Red Hill facility may also be qualified without restrictions on contract size or completion date”.

ANSWER: Amendment no. 0003 revised Document 00202.

62. Under Technical Evaluation Factors, paragraph 2.3, Factor 1, Criteria 2, the RFP indicates that the offeror needs to demonstrate two (2) projects involving the construction and/or renovation of fire protection systems including early detection, fire pumps, aqueous film-forming foam (AFFF) suppression in facilities with petroleum fuel hazards and that were complete or substantially complete within the past 10 years. Approximate dollar value of fire protection systems shall be \$3.5M or more. We think this should be changed to reflect past projects closer to the \$1,000,000.00. I think it should be changed to reflect past projects closer to the \$1,000,000.00 mark. Most hangers today are done with High Ex foam and not AFFF. Based on my knowledge of the Hawaii market we have completed the majority of the large government projects in the last few years including special hazard, but as you can see they are nowhere near the listed amount. I have a lot of connections in the mainland and I am not aware of any companies that can meet the requirements.

ANSWER: Amendment no. 0003 revised Document 00202.

63. Document 00202, Part II, Evaluation Factors/Rating Scheme, 2.3 Factor 1 Recent Relevant Experience (a) Criteria 2. After review of this section and the requirements, very few companies will qualify thus limiting competition. Can multiple projects with a combined value of \$3.5 million in a two year period be used to meet this criteria?

ANSWER: Amendment no. 0003 revised Document 00202.

64. Sheet C-204 and C-205 of the plans show unlabeled pipe profiles of waterline D, F, G, H, and reservoir washout line. Can you clarify whether these unlabeled sections are FPVC® considering the sites potential for hydrocarbon contamination? Please see the following page for pipe takeoff.

Sheet No.	Pipe Size (in)	Water Line Section	Start Station	End Station	Length (LF)	Pipe Material
C-204	8"	D	0+00	0+51	51	No Material Listed
C-205	6"	F	0+00	0+30	30	No Material Listed
C-205	6"	F	0+30	0+50	20	No Material Listed
C-205	6"	F	0+50	1+00	50	No Material Listed
C-205	6"	F	1+00	1+80	80	No Material Listed
C-205	6"	F	1+80	2+06	26	No Material Listed
C-205	12"	G	0+00	0+15	15	No Material Listed
C-205	12"	G	0+15	1+35	120	No Material Listed
C-205	12"	G	1+35	4+46	311	No Material Listed
C-205	12"	G	4+46	4+67	21	No Material Listed
C-205	8"	H	0+00	0+15	15	No Material Listed
C-205	8"	H	0+15	0+25	10	No Material Listed
C-205	8"	H	0+25	0+70	45	No Material Listed
C-205	8"	H	0+70	0+80	10	No Material Listed
C-205	8"	H	0+80	1+06	26	No Material Listed
C-205	8"	Reservoir Washout	0+00	0+15	15	No Material Listed
C-205	8"	Reservoir Washout	0+15	0+66	51	No Material Listed

ANSWER: Water Line "D" on sheet C-204 shall be FPVC DR 14 (refer to revised sheet C-204). Per Amendment 0003, portions of Water Lines F, G, H and reservoir washout will be ductile iron pipe with a reinforced concrete jacket, as shown on Amendment 0004. The remaining portions can be PVC or FPVC C-900 pipe, as shown on Amendment 0004.