DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND, PACIFIC
258 MAKALAPA DR., STE. 100
PEARL HARBOR, HI 96860-3134

Notice No. 3
30 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 STOARGE 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.

RESPONSES DEFERRED FROM NOTICE NO. 2 DATED 19 DECEMBER 2014

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: Amendment no. 0005 clarifies the requirements for hazardous materials.

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: Yes.

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: Amendment no. 0005 deletes the pre-qualification of the rockfall contractor prior to bid.

65. Reference: Sheets ST101, ST102, ST303 and ST304 indicate approximate grouted rock zone within rock anchors zone. Please advise if the shown grout layer beyond the Gunite Tunnel Lining is existing or it is part of the scope on this project. If it is part of the scope, do we have to include the cost in items No 0001AB & 0001AC or in item 0001AA?

ANSWER: Grouted rock zone shown in contract drawings is new work for ROCK ANCHORS and shall be included as part of scope of work into cost Item No. 0001AB as described.

66. There appear to be new CCTV PTZ cameras in the lower access tunnels. We did not see any specifications for the cameras. Please provide this information

ANSWER: Response deferred.

67. Due to the complexity of this project and the disruption caused by the end of the year holidays we are requesting the bid submission date be extended to at least 30 Jan 2015.

ANSWER: Amendment no. 0005 extends the closing date.

68. Electrical Sheets EB401 and EB402 show transfer switches to transfer power supply from primary power to the emergency generator for the Fire Pumps and AFFF Pumps. Are these switches intended to be automatic or manual?

ANSWER: Amendment no. 0005 will indicate Automatic Transfer Switches (ATS).

69. Section 28 31 76, Subsection 1.3 References does not list UFC 4-021-01 dated 9 April 2008 with Change dated 1 January 2010 Design and O&M: Mass Notification Systems. Please confirm that UFC 4-021-01 dated 9 April 2008 with Change dated 1 January 2010 is required. If so, please further confirm that the requirements for this project are based on the requirements for a US Navy existing facility.

ANSWER: Confirmed that UFC 4-021-01 dated 9 April 2008 with change 1 dated 1 January 2010 is required and that requirements are for a US Navy existing facility. This reference will be added to Amendment 0005.

70. Section 28 31 76, Paragraph 2.11.1 Photoelectric Smoke Sensors, says, “Provide addressable photoelectric smoke sensors as follows:” In the majority of the project including the tunnels, all fire alarm items must be listed for Class I Division 2 (ClassIDiv2). Currently, there are no devices that meet both the conditions of being addressable and Class I Division 2 with the characteristics shown. There are ClassIDiv2 smoke detectors that are conventional zoned type. Please advise on if alternate means of smoke detection may be allowed and what kind will be acceptable.

ANSWER: See response to question no. 26.

71. Section 28 31 76, Subsection 2.12 Heat Detectors describes addressable type heat sensors. These devices are not listed for use in ClassIDiv2 and currently there is no manufacturer for the type of devices specified in an addressable format. There are conventional, hard-wired ClassIDiv2 devices that can be monitored by an addressable module in an enclosure that can be rated for ClassIDiv2 and they will not be able to meet paragraphs 2.12.3 Operator Access 2.12.4 Operator Control. Please advise if alternative means of heat detection may be allowed and what kind will be acceptable.

ANSWER: See response to question no. 26.

72. Section 28 31 76, Subsection 2.15 Fire Alarm Control Unit and Mass Notification Control Unit (FMCP) says "Provide a complete control panel filly enclosed in a lockable steel cabinet as specified herein…" There are no FMCP enclosures on the market that meet ClassIDiv2 listings at this time. Please advise if we will be allowed to mount the FMCP in a ClassIDiv2 enclosure large enough for the FMCP and the ventilation equipment required for it to operate within.

ANSWER: Contractor will be allowed to mount the FMCP in a class 1 div 2 enclosure large enough for the FMCP and the ventilation equipment required for it to operate within, refer to Amendment 0005. This same method shall also apply to other fire alarm panels in a class 1 div 2 area.

73. Section 28 31 76, Subsection 1.3 References does not list UFC 4-021-01 dated 9 April 2008 with Change dated 1 January 2010 Design and O&M: Mass Notification Systems. Please confirm that UFC 4-021-01 dated 9 April 2008 with Change dated 1 January 2010 is required. If so, please further confirm that the requirements for this project are based on the requirements for a US Navy existing facility.

ANSWER: Confirmed that UFC 4-021-01 dated 9 April 2008 with change 1 dated 1 January 2010 is required and that requirements are for a US Navy existing facility. This will be added to Amendment 0005.

74. On sheet FT103 there is a symbol of a rectangle with the letters "RAP" There is no matching symbol. Please confirm what this symbol is.

ANSWER: This is a remote amplifier panel, the legend will be updated as part of Amendment 0005.

75. On sheet FT128 there is a symbol of a rectangle with the letters "FAN". There is no matching symbol on sheet F-002. Please confirm what this symbol is.

ANSWER: The FAN indicates a connection to the particulate fan as shown on the mechanical drawings, will add to schedule on F-002 as part of Amendment 0005.

76. On sheet FT128 there is a symbol of a rectangle with the letters "FSD". There is no matching symbol on sheet F-002. Please confirm what this symbol is.

ANSWER: FSD indicates fire smoke damper, this will be added to schedule on F-002 as part of Amendment 0005.

77. On sheet FT129, there is a symbol of a rectangle with the words, "OIL TIGHT DOOR - A" that shows a connection to the Heat Detector, but no other interfaces. The specifications do not address it and the matrix on Sheet FTFT615 shows in input for it. Please confirm that this would require an addressable Input module.

ANSWER: The connection to the heat detector shall be removed as part of Amendment 0005. The oil tight door holder shall require an addressable module for the door remote input.

78. On the Partial Fire Protection Drawings, Sheets FT101 to FT166, the drawings show speaker strobes at relatively large spacings. Per NFPA 72 as referenced in Section 28 31 76, Subsection 1.3, the minimum intelligibility score is .7. To meet NFPA, it would require the addition of many more speakers due to the construction - with a spacing as short at 10 feet between speakers in the tunnels due to the existing construction. Further, if this were to meet UFC 4-021-01 requirements, the intelligibility score may be higher. Please advise on if additional speakers are required to meet intelligibility.

ANSWER: .7 is the CIS score that will need to be met per Navy requirements. speakers are spaced approximately 100 feet apart. Due to the solid walls and the potential for sound reverberation off of the hard surfaces, we anticipate that the 100 foot spacing will be sufficient to achieve the necessary CIS score. UFC 4-021-01, paragraph 4-6.1.2. will allow a lower CIS score provided that occupants can walk no more than 50 feet to reach an area with the normal required CIS score of .7.

79. On the Partial Fire Protection Drawings of the lower tunnel, Sheets FT102 to FT133 especially, there are areas that appear to be missing some areas or overlapping between some of the match lines. Although the placement of devices may not be final, this is troubling because inaccurate tunnel distances will affect the distances of circuits. Please review the drawings on the above referenced sheets and confirm that all areas are accurately shown between match lines.

ANSWER: The drawings do show an overlap between the area and the previous area and the area and the following area. (For example, Area 7 overlaps with both Area 6 and Area 8). The areas do not appear to show any missing areas.

80. Section 28 31 76, Subsection 3.8 Instruction of Government Employees Paragraph 3.8.2 Required Instruction Time states, "Provide 16 hours of instruction after final acceptance of the system…" and Paragraph 3.8.2.1 Technical Training states, "Equipment manufacturer or a factory representative shall provide 3 days of on site technical training to the government…" Paragraph 3.9 appears to show that the Operation Training of 16 hours and the Maintenance

Training of 3 days are separate training. Please advise if these are separate and independent trainings.

ANSWER: Yes, according to the specifications, these are separate and independent trainings.

81. Section 28 31 76, Paragraph 3.9 Technical Data and Computer Software state, Provide, in manual format, lesson plans, operating instructions, maintenance procedures, and training data for the training courses. The operations training shall familiarize designated government personnel with proper operation of the installed system. The maintenance training course shall provide the designated government personnel adequate knowledge required to diagnose, repair, maintain, and expand functions inherent to the system." The maintenance training course is instructor led over a minimum of 3 days per Paragraph 3.8.2.1. Most Fire Alarm System manufactures will only release software to technicians who have passed a certification course (that includes on-line and classroom learning and testing). Other governmental agencies have sent personnel to attend these trainings for the different vendors. In the past, this has met the maintenance training requirement, but the quantity of trained personnel is needed for this proposal. Please advise on the number of personnel who will be trained for the maintenance training.

ANSWER: The number of personnel shall be 3. This revision shall be made in Amendment 0005.

82. Please confirm if there is a dedicated smoke control system annunciator for this project.

ANSWER: The drawings do not indicate a dedicated smoke control system annunciator. There is an existing UL 864 Fan Control System.

83. Section 28 31 76, Paragraph 2.24.1 Radio Transmitter and Interface Panels states, "The proprietary supervising station receiving equipment is King Fisher and Madahcom …" The Madahcom system is the old Wide Mass Notification System (Subsection 2.23) that was superseded by a Federal Signal System. Please confirm that the Federal Signal System shall be substituted for Madahcom.

ANSWER: Confirmed – Federal signal shall be substituted for the Madahcom system. This shall be revised as part of Amendment 0005.

84. Miscellaneous Metal Note E on Sheet ST001 stipulates “All steel shall be Hot-Dipped Galvanized, UON.” *Could you clarify whether this stipulation applies to the “temporary” (to be removed after the initial installation is completed) Rock Anchor accessory items, such as nuts and washers?*

ANSWER: All rock anchor accessory items shall be hot-dipped galvanized.

85. Foundation Note G(b) entitled "Rock Dowel" on Sheet ST001 stipulates "Install all Rock **Anchors** (emphasis added) prior to any excavation work." *Could you confirm/clarify whether this note applies to the Rock Anchors or that it should apply to the Rock Dowels?*

ANSWER: Amendment 0002, "Anchors" revised to "Dowels". However, at Compartmentalization Walls, rock anchors shall be installed prior to excavation work per the "Sequence of Construction at Compartmentalization Walls:" notes on sheet ST001.

86. Bid Item #0001AB of the Price Proposal Schedule stipulates a quantity of 1500 linear feet of rock anchors. We have only been able to identify details for/stipulating 11 anchor locations amounting to approximately 66 linear feet on Sheets ST101, ST301 & ST302; plus another 72 anchor locations amounting to approximately 720 linear feet on Sheets ST102, ST303 & ST304. *Could you direct us to the Drawing Sheets with the details on the remaining rock anchors?*

ANSWER: Rock anchors are required at EACH compartmentalization wall where the new sump pits and trenches occur. See MT drawings for locations (5) of compartmentalization walls (Doors 2-5 & Door C). In addition, the quantity of installed rock anchors at the new oil pressure resistant door (Door 1) shown on ST102, ST303 and ST304 should exceed 720 lf since the minimum required embedment INTO the grouted rock zone is 10 lf (per sheet ST102). Additional length of rock anchor will be required to accommodate the thickness of the existing tunnel shotcrete and the new concrete buttress/ringwall.

87. Bid Item #0001AC of the Price Proposal Schedule stipulates a quantity of 900 linear feet of rock dowels. We have only been able to identify details for/stipulating 29 dowel locations amounting to approximately 174 linear feet on Sheets ST101, ST301 & ST302.
Could you direct us to the Drawing Sheets with the details on the remaining rock dowels?

ANSWER: See response to question no. 86.

88. Specifications §316813-1.1.6.2 through §316813-1.1.8.3 stipulate that payment for Watertightness Testing will be measured and paid for each test performed, and for each subsequent grouting and drilling "phase" to be performed at each anchor hole. Specifications §316813-3.1.8 and §316813-3.1.9 stipulate the Watertightness Testing procedure and the Waterproofing Anchor Hole (grouting and drilling phases) procedure in the event the watertightness testing results exceed the acceptance parameters. We note that work completed on previous projects required that the same "hole" be tested, grouted and drilled more than once.

a. Could you confirm whether more than a single "complete cycle" of testing, grouting and drilling may or could be required for an anchor location?

b. In the event more than a single "complete cycle" of testing, grouting and drilling is required for an anchor location, would the anchor contractor be compensated for each additional testing, grouting and drilling phase?

ANSWER:
a. See Amendment 0002. Yes, more than a single “complete cycle” may be required for each anchor depending on the results of the tests
b. See Amendment 0002. No, the contractor will only be compensated for each linear foot of anchor installed, complete in-place

89. {Deleted} requests your consideration to substitute a Bolted, Rolled Tapered Panel (RTP) tank manufactured by {deleted} as an acceptable alternative to a welded steel tank as referenced by Specifications Section 33 56 13.13. We certify that the Bolted (RTP) tank design meets the functional and operational intent of the specification in lieu of the welded tank, and we hereby submit the following general variances and clarification for your review.
1. Section 33 56 13.13, 1.1 References
a. Specified: API Std 650
b. Substitute: Bolted (RTP) tank would be constructed to meet AWWA D103-09. Tank connection provides bolted metal tanks for the petroleum industry as an alternative to welded tanks.

2. Section 09 97 13.15, 2.2 Coating System
a. Specified: Alternate systems or products will not be considered. Coating system is intended to be applied in the field.
b. Substitute: {Deleted} is a series of epoxy based powder coatings that exhibit excellent corrosion protection and chemical resistance when applied over a properly prepared metal substrate. {Deleted} is designed for interior application only. {Deleted} powders are available in gloss, satin, matte and TXT finishes in a wide range of colors.

ANSWER: The retention tank shall hold water, AFFF and fuel. Thus API Standard 650 as specified must be met.

90. Reference: Sheet FT 165 indicates that the upper level of the pump room is protected with optical IR flame detectors. Please advise if all devices shall be rated for a classified hazard area.

ANSWER: Yes, this area shall be Class 1 Division 2 as indicated on F-002.

91. On class A requirement it requires 4' apart for the return FA conduit. in the tunnel there is no space to put 4 feet apart to meet the requirement for conduit run. what are the other solution?

ANSWER: The tunnel is more than 4’ wide in all areas, refer to drawings.

92. All device and panels are require to be explosion proof which mean the panels are require to put in the explosion proof box which they don't have any ventilation which in short amount of time each fire alarm panel could over heat and malfunction the system. there isn't any explosion boxes that has cooling system in. any recommendation?

ANSWER: Enclosures shall be provided with Class 1 Division 2, breather vent accessories. This shall be added to the specifications in Amendment 0005.

93. Annunciator panel are in explosion proof area and if we put into the explosion boxes the screen can't be view. They do not make explosion proof boxes for these special type. any recommendation?

ANSWER: The annunciator panels are located at the adits, which as indicated by F-002, note 32 are not in a Class 1 Division 2 area. Remote annunciator boxes can be labeled and provided with a key so that they can be unlocked to view alarm conditions in the gauger station.

94. Graphic Annunciator is also in explosion proof area. They also don't make explosion proof boxes where it has view window. They do not make explosion proof boxes for these special types. Any recommendation?

ANSWER: Graphic annunciators are located at the Adits, which as indicated by F-002, Note 32 shall not be explosion proof. Graphic annunciators can be labeled and provided with a key so that they can be unlocked to view alarm conditions in the gauger station, which shall be revised as part of Amendment 0005.

95. Specification Section 28 31 76.2.19.1 Annunciator Panel states “A building floor plan shall be provided mounted (behind plexiglass or similar protective material) at the annunciator location. The floor plan shall indicate all rooms by name and number including the locations of stairs and elevators. The floor plan shall show all devices and their programmed address to facilitate their physical location from the LCD display information.”

ANSWER: A touch screen device shall be provided as required by specificationSection 28 31 76, paragraph 2.18. Amendment no. 0005 will delete paragraph 2.19. Amendment no. 0005 will also revised paragraph 2.18 to include the location of all devices, and those activated.

96. It may not practical or feasible to meet this specification requirement due to the size of the floor plans and quantity of fire alarm devices that need to be shown and have the required information printed large enough to be readable/legible. It would be more viable to facilitate the physical location of fire alarm devices (either in alarm or trouble) to substitute a graphical annunciator such as Notifier’s FirstVision, see attached datasheet. The required information for responding personnel would be readily displayed instead of having to hunt/locate the information on a printed floor plan.

ANSWER: See response to question no. 95.

97. We respectfully recommend that this graphical annunciator type be specified in lieu of the specified LCD display with printed floor plan to better meet the intent of this specification.

ANSWER: See response to question no. 95.

98. Reference Section 08 33 23 - Overhead Coiling Doors. There are many problems with the written specifications but the main issue is making modifications to a fire rated door. The Door Schedule on Plan Page A-500 calls for Type "E" Roll-up Doors to be fire rated. Plan Page A-600, Detail C2 says that the bottom bar seal needs to be modified to fit around the existing train track rails. Detail C2 shows a bottom bar that is not in accordance with 2.3.1A2 but the main issue is that any modifications to fire rated doors negates the fire rating label. Do the roll-up doors need to be fire rated?

ANSWER: The roll-up doors do need to be fire rated as indicated in the specifications and drawings. However, the subsequent modification indicated is an addition to the fire rated door, that allows for additional sealing at the train track rails to limit smoke transfer from one compartment to the next. It is the understanding that the door will be purchased as a fire rated door, the subsequent modifications necessary for the field conditions will negate the label.

99. Electrical Sheets EB401 and EB402 show transfer switches to transfer power supply from primary power to the emergency generator for the Fire Pumps and AFFF Pumps. Are these switches intended to be automatic or manual?

ANSWER: See response to question no. 68.

100. Reference ES 110 -ES115, Outside Electrical. - Is it possible to adjust the alignment of the ductbank at the contractors discretion?

ANSWER: As stated on shee E-001, ELECTRICAL GENERAL NOTES, Note 14. Drawings are diagrammatic in nature and cannot show every connection, junction box, wire, conduit, etc. The exact locations and arrangement of all parts shall be determined as the work progresses. The contractor shall be responsible for providing a complete and functional electrical system.

101. SLIN 0001AB is to include all pre-grouting for the installation of rock anchors. Spec section 31 68 13 1.1.7.2 states that pre-grouting holes will be measured for payment based upon the number of 94-pound bags of cement that were actually injected into the anchor hole. Please specify a quantity of 94-pound bags to include in SLIN 0001AB for bidding purposes.

ANSWER: Pre-grouting shall not be measured or paid for separately, but shall be considered included in the complete, in-place cost of the rock anchors. See Amendment No. 2. Payment shall be based on linear feet of rock anchors installed as shown on SLIN 0001AB, the pre-grouting payment based on number of bags of cement shall be removed as part of Amendment 0005.

102. The quality assurance section for Specification 32 11 16 – Sub-bases for Flexible Paving, calls for in-place tests for sieve analysis (reference section 1.5.3.2 b). Typically this quality assurance requirement is for airfield and non-airfield concrete pavement, not flexible pavement, where water percolation through the sub-base and base layer is desired. This quality assurance requirement is a cost premium that will not add significant quality to the project. Please advise if

the requirement for sieve analysis testing for aggregates that have been compacted can be eliminated.

ANSWER: In place sieve analysis for subbase to be removed from specifications as part of Amendment 0005.

103. Note 1 for the Solicitation Submittal requirement(s) of Factor 1 makes reference to a "Note 6". However, Note 6 was deleted in Amendment No. 3. Should the reference be to Note 5 instead?

ANSWER: Yes. See amendment no. 0004.

104. Detail 3/MT301 shows a cross tunnel section. There is a callout note #3 that says "seal end conditions." Please clarify what defines an end condition and provide locations where this is too occur, details that apply to the end condition with attachment criteria and materials too be used to seal the end condition?

ANSWER: The sealing of the end conditions are similar to as notes 1 and 2 on the same detail. New 316 SS Corrugated panels shall extend from the end of the existing corrugated roof panels up to the roof. This situation occurs where the cross tunnels (tunnels that lead to the tanks) and the main tunnels intersect. This is shown as Note 5 on MT107 and Note 5 on MT106. Additional notes to be provided as part of Amendment 0005.

105. Detail 2/MT301 shows the gutter/downspout on the side opposite of the existing trench drain. Based on the site walk the gutter/downspout condition is typically on the trench drain side of the tunnel. This detail does not seem to match existing conditions. Please clarify the location where this detail occurs.

ANSWER: Correct, the gutter empties into the trench drain. This drawing will be revised as part of Amendment 0005.

106. Detail 1/MT502 shows an extension detail of the existing rain catchment system. What is the purpose of extending the rain catchment system? Can SS Mesh be used in this condition in lieu of the corrugated roof panel.

ANSWER: The purpose of extending the rain catchment system is to create a sealed non-combustible plenum space as shown on Mechanical sheet MT301. A sealed non-combustible plenum space will eliminate the need for additional AFFF sprinklers.

107. Sheets FT137 – FT143 show a hashed area to represent the existing rain catchment system. Based on the site walk the hashed area extends beyond actual field conditions. Shall we assume we are to bid the contract documents in lieu of existing conditions?

ANSWER: The rain catchment system extension shall be bid from the mechanical drawings and the specification, 05 50 14, Rain Catchment System Extension.

108. On Sheet FT138 at Door 3 the rain catchment extends past the edge of the tunnel. Is this an actual condition in the tunnel?

ANSWER: The rain catchment does not extend beyond the edge of the tunnel.

109. Reference: Spec Section 02 61 13 page 2 indicates that HAZMAT including ACM & LBP were found during 2010 and 2012 HAZMAT surveys. Our HAZMAT sub has respectfully requested these reports to be able to price this scope accordingly. Please provide these surveys / reports.

ANSWER: See response to question no. 27.

110. Reference: ST 101 and ST 301 are related to the new Compartmentalization Wall. Please confirm that new Compartmentalization Wall shall be constructed to house the following Doors inside the tunnel:

(1) Door 2 (sheet MT 116)
(2) Door 3 (sheet MT 115)
(3) Door 4 (sheet MT 114)
(4) Door 5 (sheet MT 113)
(5) Adit 5 Door (sheet MT 118)
(6) Adit 6 Door (sheet MT 119)

ANSWER: Yes, the compartamentalization walls shown on the structural detail drawings shall be constructed to house the above doors. Except, Adit 5 and Adit 6 do not have sumps or trenches as shown on MT119 and MT118.

111. Due to the Christmas and New Year holidays we request a bid extension to ensure enough time to receive subcontractor quotations and prepare a competitive proposal for this project.

ANSWER: Amendment no. 0005 extends the closing date.

112. Note 2 CD102 and CD103, Note 9 CU102, Note 1 CG102 and CG103Specificaiton section 02 61 13, Excavation and Handling of Contaminated Material payment section indicates that compensation for this work shall be paid for as a unit cost item. At current bid time, hazmat quantities and capacity are not known. Please confirm any hazardous material will be handled through the differing site condition clause per FAR _____.

ANSWER: See amendment no. 0003 which provides an estimated quantity of 100 tons.

113. Is the page limit for the safety narrative in Section 00200 page 7, Factor 4 single or double sided?

ANSWER: One (1) double sided page or two (2) single sided pages. See amendment no. 0005.