AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES
	1 13

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
	08/21/2014		EDM1719

6. ISSUED BY	CODE	7. ADMINISTERED BY *(If other than Item 6)*	CODE
NASA/Armstrong Flight Research Ctr. P.O. Box 273 M/S 4811-140 Edwards CA 93523-0273	DFRC		

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*		9A. AMENDMENT OF SOLICITATION NO.
	(x)	NND14499005BE
	x	9B. DATED *(SEE ITEM 11)* 07/28/2014
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED *(SEE ITEM 13)*
CODE / FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended , by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted ; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted , such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The following changes have been made to the solicitation:

1. In Section I.60 52.228-1 Bid Guarantee. (SEP 1996), delete line (c) in its entirety and replace with,
"(c) The amount of the bid guarantee shall be 20% percent of the bid price or $3,000,000, whichever is less."

2. In Specifications, Section 01 11 00, 1.1.1 Separate Construction Phases, delete in its entirety and replace with, "The contractor shall perform the work in Seven (7) distinct and separate phases. Two (2) of the phases are options. The Contractor shall perform work on one phase at a time. After completion of each phase of construction a final inspection will

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
		Brian Bowman	
15B. CONTRACTOR/OFFEROR _____ *(Signature of person authorized to sign)*	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA _____ *(Signature of Contracting Officer)*	16C. DATE SIGNED

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	be performed by the Government prior to work commencing in the next phase. Once the work in one phase is completed and accepted by the Government, the Contractor will be issued a Notice to Proceed for the next phase establishing start and completion dates reflecting the number of days allowed per phase as shown in Paragraph 1.5 " Phased Construction Schedule". The order of phase execution will be coordinated during schedule submission. The following are the separate and distinct phases of this project: 1. Hangar 4802 2. Hangar 4801 3. Hangar 4840 - Bays 1,2,3 4. Hangar 4840 - Bays 4,5 5. Hangar 4840 - Bay 6 6. Hangar 4826 7. Hangar 4833 The work in pump house 4853 will be concurrent with the first phase and must be completed prior to the testing portion of the first phase. Building 4853 is required to be completed, inspected, operational and on-line prior to construction work beginning in hangar 4840. Building 4840 Pump Room - A bypass water supply valve shall be installed into the system prior to disconnecting and/or removing the existing diesel engines and foam bladder tanks. 3. In Specifications, Section 01 11 00, 1.5 PHASED CONSTRUCTION SCHEDULE AND PERIOD OF PERFORMANCE, delete paragraph in its entirety and replace with, "Within the contract period of performance of 670 days, including the base bid and all options, the Contractor shall commence and complete the work in phases including all required submittals. Liquidated damages (LDs) will be assessed for each phase of work for Contractor delays in the amount of $ 405.10 per day per phase. The following reflects the number of calendar days that will be allowed for construction per phase. Items marked with an asterisk reflect option items which may or may not be awarded. A minimum of 14 days will be required between each Continued ...				

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	phase of Contractor work for NASA preparation of next phase. Actual order of work areas will be coordinated at time of schedule submission. Task Calendar Days NTP-Mobilize Site 21 Building 4853(added to first Phase once coordinated) 33 Hangar 4802 84 Phase 1 to Phase 2 Transition Downtime 14 Hangar 4801 84 Phase 2 to Phase 3 Transition Downtime 14 Hangar 4840 - Bays 1,2,3 84 Phase 3 to Phase 4 Transition Downtime 14 Hangar 4840 - Bays 4,5 56 Phase 4 to Phase 5 Transition Downtime 14 Hangar 4840 - Bay 6 56 Phase 5 to Phase 6 Transition Downtime 14 * Hangar 4826 84 Phase 6 to Phase 7 Transition Downtime 14 * Hangar 4833 84 Total 670 All fire protection systems are required to be tested and commissioned prior to commencing work in the next scheduled hangar. The phasing schedule is subject to change and shall be determined by the Contracting officer. Any work interfering with Armstrong activities shall be accomplished after normal work hours. Interference can be, but is not limited to excessive noise, dust, obstruction to typical pedestrian traffic, and obstruction to work area access." 4. In Plan sheet A-802, delete note, "NEW INSULATION FOR HANGAR 4802 ONLY" in its entirety and replace with, "NEW INSULATION FOR HANGAR 4801 ONLY." 5. The Questions and Answers document has been added.				

Questions and Answers

Question 1. *Per REAL ID ACT memo, it lists the accepted forms of identification. Per the specifications two forms of identification are required for badging. Please advice what forms of secondary identification can be used if the State ID is from a non-compliant state?*

Answer 1. Refer to document titled, “Implementation of REAL ID Act at NASA Facilities” for a list of alternative documents at Implementation of REAL ID Act at NASA Facilities.

Question 2. *Per specification section 01 30 00, paragraph 1.5 Supervision; please confirm that the Project manager does not have to be on-site personnel?*

Answer 2. Project manager does not need to be onsite personnel.

Question 3. *Pending answer to question #2, if the Project Manager is an On-Site personnel, can the Project Manager be the QC Manager?*

Answer 3. Not applicable since Project Manager is not required to be on-site.

Question 4. *Per the SF-1442 the period of performance is 670 days. Per specification section 01 11 00, page 12, paragraph 1.5, period of performance is 616 days. Please confirm project period of performance.*

Answer 4. The period of performance is 670 days. The paragraphs in specification Section 01 11 00, will be replaced as follows:

1.1.1 Separate Construction Phases

The contractor shall perform the work in Seven (7) distinct and separate phases. Two (2) of the phases are options. The Contractor shall perform work on one phase at a time. After completion of each phase of construction a final inspection will be performed by the Government prior to work commencing in the next phase. Once the work in one phase is completed and accepted by the Government, the Contractor will be issued a Notice to Proceed for the next phase establishing start and completion dates reflecting the number of days allowed per phase as shown in Paragraph 1.5 " Phased Construction Schedule".

The order of phase execution will be coordinated during schedule submission. The following are the separate and distinct phases of this project:

1. Hangar 4802
2. Hangar 4801
3. Hangar 4840 – Bays 1,2,3
4. Hangar 4840 – Bays 4,5
5. Hangar 4840 – Bay 6
6. Hangar 4826
7. Hangar 4833

The work in pump house 4853 will be concurrent with the first phase and must be completed prior to the testing portion of the first phase.
Building 4853 is required to be completed, inspected, operational and on-line prior to construction work beginning in hangar 4840.

Building 4840 Pump Room - A bypass water supply valve shall be installed into the system prior to disconnecting and/or removing the existing diesel engines and foam bladder tanks.

1.5 PHASED CONSTRUCTION SCHEDULE AND PERIOD OF PERFORMANCE

Within the contract period of performance of 670 days, including the base bid and all options, the Contractor shall commence and complete the work in phases including all required submittals. Liquidated damages (LDs) will be assessed for each phase of work for Contractor delays in the amount of $ 405.10 per day per phase.

The following reflects the number of calendar days that will be allowed for construction per phase. Items marked with an asterisk reflect option items which may or may not be awarded. A minimum of 14 days will be required between each phase of Contractor work for NASA preparation of next phase. Actual order of work areas will be coordinated at time of schedule submission.

Task	Calendar Days
NTP-Mobilize Site	21
Building 4853 (to be added to first Phase once coordinated)	33
Hangar 4802	84
Phase 1 to Phase 2 Transition Downtime	14
Hangar 4801	84
Phase 2 to Phase 3 Transition Downtime	14
Hangar 4840 – Bays 1,2,3	84
Phase 3 to Phase 4 Transition Downtime	14
Hangar 4840 – Bays 4,5	56
Phase 4 to Phase 5 Transition Downtime	14
Hangar 4840 – Bay 6	56
Phase 5 to Phase 6 Transition Downtime	14
*Hangar 4826	84
Phase 6 to Phase 7 Transition Downtime	14
*Hangar 4833	84
	Total 670

All fire protection systems are required to be tested and commissioned prior to commencing work in the next scheduled hangar. The phasing schedule is subject to change and shall be determined by the Contracting officer. Any work interfering with Armstrong activities shall be accomplished after normal work hours. Interference can be, but is not limited to excessive noise, dust, obstruction to typical pedestrian traffic, and obstruction to work area access.

Question 5.

In view of the fact that:

a. In Specification Section 21 13 18.00, paragraph 1.4.1, it is required that the Fire Protection Specialist (FPS) shall be a registered professional engineer and a Full Member of the Society of Fire Protection Engineers.

b. In Specification Section 21 30.00, paragraph 1.4.1, it is required that the Fire Protection Specialist shall be a registered professional engineer and a full member of the Society of Fire Protection Engineers, or is certified as a Level IV NICET technician.

c. In Specification Section 28 31 64.00 10, paragraph 1.4.1.3 it is required that the Fire Protection Engineer be

· An engineer having a Bachelor of Science or Masters of Science Degree in Fire Protection Engineering from an accredited university engineering program, plus a minimum of 2 years' work experience in fire protection engineering.

· A registered professional engineer (P.E.) in fire protection engineering.

· A registered PE in a related engineering discipline and member grade status in the National Society of Fire Protection Engineers.

· An engineer with a minimum of 10 years' experience in fire protection engineering and member grade status in the National Society of Fire Protection Engineers.

d. In Specification Section 21 13 24.00 10, paragraph 1.4.1 it is required that plans and specifications be prepared by an individual who is either a registered professional with ten years experience designing AFF systems, or who is certified as a NICET Level IV technician. e. There is no requirement for a Fire Protection Specialist in Specification Sections 21 13 00.00 40 and 21 13 20.00 20.

Please confirm that:

1) A fire protection engineer, registered by examination, with a minimum of 10 years experience can fulfill all of the requirements stated above.

2) A fire protection specialist is required to certify all fire suppression or fire alarm systems.

Answer 5.

1) A fire protection engineer, registered by an examination administered by the National Council of Examiners for Engineering and Surveying (NCEES) and with a minimum of 10 years experience can fulfill all of the requirements stated above.

2) The term fire protection specialist and fire protection engineer will be interchangeable throughout the drawings and specifications. A fire protection specialist/engineer is required to certify all fire suppression and/or fire alarm systems.

Question 6. *Various fire suppression system specification sections require hydraulic calculations. Since this is a fully designed, bid project, hydraulic calculations should have been performed by the designer. Please verify that these calculations are not required.*

Answer 6. Hydraulic calculations are required in order to determine pipe sizes which are not indicated on the drawings and as required in the specifications.

Question 7. *During the job walk it was mentioned that the high expansion foam system design is a blend of NFPA 409 and ETL 02-15 requirements. ETL 02-15, Section A1.4.3.10 requires that at each fire pump a minimum 100 gallon surge tank be provided. It is noted that there is no surge protection in the fire pump house. Please verify that these calculations are not required.*

Answer 7. Surge tanks at the fire pump house will not be in the scope of this project.

Question 8. *In Specification Section 01 11 00, paragraphs 1.1g3 a)(I), etc. it is required that existing overhead systems be converted to single interlock preaction systems. Drawings F-352D (and others) requires a double interlock valve trim. Please verify which type of interlock is required.*

Answer 8. The pre-action systems will be double interlock.

Question 9. *Is the high-expansion foam system abort switch to control both foam and water flow, or just water?*

Answer 9. The abort switch is to control both foam concentrate and water flow.

Question 10. *Please verify the testing requirements of Specification Section 21 30 00, paragraph 3.9.3.2. If the pump motors can be only started 2 times in 10 hours, and each pump is to be started at least 20 times, the pump testing will need to be carried out over a period of about 10 to 12 days, assuming normal working hours.*

Answer 10. It is acceptable to follow the NFPA 20 2013 field acceptance testing requirements as it pertains to Section 21 30 00, paragraph 3.9.3.2. Starting frequency shall be in accordance with the manufacturer's requirements.

Question 11. *Please verify that, as required by Specification Section 21 30 00, paragraph 3.9.4, water for flow testing is to be provided by the contractor.*

Answer 11. Water for flow testing will be provided by NASA.

Question 12. *Please verify that the existing pump test header and flow meter are adequate to test two fire pumps simultaneously, as required by NFPA 20, Section 14.2.6.2.5.1.*

Answer 12. Provide new flow meter in existing 12 inch bypass line to tank NB114.

Question 13. *Specification Section 28 31 64.00 10, paragraph 1.2.1 stipulates that existing class of wiring shall be maintained, but no class is designated on the drawings. Please verify that all circuits may be Class B, Pathway Survivability Level 1.*

Answer 13. Fire alarm circuits may be Class B, Pathway Survivability Level 1.

Question 14. *Plan sheet A-802, Acoustical ceiling at foam generator detail states "new insulation for hangar 4802 only". Are we required to install new insulation above acoustical ceiling throughout hangar 4802?*

Answer 14. Note should read, "…at 4801 only." Existing insulation would need to be removed and replaced based on area of work.

Question 15. *Typical Note, Drawing F-120A Fire Alarm Demolition Plan Notes: Item 1: "Existing devices to remain."*
1. Is the intent to keep existing horn/strobe locations and replace with new devices and wire?

Answer 15. Equipment should remain where indicated on the drawings. Some equipment is being removed and/or added as noted throughout. Refer to plan notes for demolition and addition of specific equipment. All equipment labeled with 'ETR' is to remain as is. Refer to lineweights/legend for further clarification.

Question 16.
Specification 28 31 64.00 10: Fire Detection and Alarm System, Addressable states:

a. Section 1.2.3a. "Transmission of signals over the existing fire alarm network"
b. Section 1.2.6 "..shall operate as an extension to an existing configuration.."
c. Section 1.2.7 "…interfacing components shall be furnished as required to connect to subsystems or devices which interact with the fire alarm system.
d. Section 2.3 "…provide a Simplex 4100ES fire alarm control panel or equivalent."

1. Is the intent for the Simplex 4100ES fire alarm panels to include Network Interface Cards and report through the base-wide fire alarm system?
2. Is the intent for each addressable detection devices to have the capability to report through the network to Post 1 (main reporting station)?
3. If item 2 is "no"; what level of reporting through the base-wide network would be required per building? The reporting requirements to the Central Station (based on the Sequence of Operation) can be achieved with nine points (relays) per building. Please confirm.

Answer 16. 1.) Yes. 2.) Yes 3) Item 2 is Yes.

Question 17. *Building 4853 (Pump House) is to receive a new Fire Alarm Control Panel per note 1. Drawing F-220. The existing panel is a base-wide network Simplex4100. Please confirm that the new panel shall be a Simplex 4100ES as required to maintain network reporting.*

Answer 17. New panel shall be provided to perform all functions and sequence of operations as outlined in drawings and specifications.

Question 18. *Building 4833, Bid option 2, page 2 of section 01 1100, states "the existing draft curtain in building 4833 appears to not adhere to current code requirements and will need to be field verified." Please verify if the one (1) existing draft curtain adheres to current code?*

Answer 18. Assume the existing draft curtain is code compliant and will not require modification.

Question 19*. METRIC- will this be metric or imperial (inch, pound, etc.)?*

Answer 19. Imperial.

Question 20. *FIRE WATCH- will fire watches be required? If so, please elaborate.*

Answer 20. Contractor will be responsible for fire watch during scheduled working hours when the fire protection system is impaired in accordance with NFPA 25.

Question 21. *PHASING- please clarify any necessary phasing.*

Answer 21. Refer to Answer Number 4.

Question 22. *DESIGN BUILD- plans indicate "For Construction". Is any part (or all) of the design to be the responsibility of the contractor (we recommend that, with the exception of the location of the Generators (since such is dependent on type and location of aircraft) it generally be design/build (pump and pipe sizing, etc.) so that the contractor has complete responsibility over the project, both install and design)?*

Answer 22. Contractor must perform calculations to support installation decisions on pipe routing/sizing, equipment sizing/placement and will be reflected in their shop drawings and calculation submittals.

Question 23. *FIRE PUMP SIZE- pumps are indicated at 4,000 gpm. Is this a matter of size specified by owner, or (similar to design/build question) is the size to be determined by the contractor to meet code?*

Answer 23. Provide the 4,000 gpm as specified.

Question 24. *PUMP PIPING- the pump house piping is welded. Some is indicated as remaining, whereas some is to be replaced. May we reuse the piping otherwise slated for demotion if it can be properly modified for new use?*

Answer 24. Use new pipe only for replacement of demolished pump piping. Building 4853 piping can be sized per contractor's hydraulic calculations and pump requirements.

Question 25. *PUMP TRANSFER SWITCH- no mention is made of automatic transfer switch. Please confirm such is not required.*

Answer 25. An Automatic Transfer Switch (ATS) is shown on Sheet E-200 of the primary scope package. There is one ATS being called for at the transformer.

Question 26*. SOFT START- specs call for Soft Start pump controllers. Such may not be available for the subject pump size, etc. Please confirm this only applies where such is readily available.*

Answer 26. This only applies where such is readily available.

Question 27. *PREACTION- plans indicate Double Interlock, whereas specifications indicate Single Interlock. Please clarify.*

Answer 27. A&E – Preaction systems will be Double Interlock.

Question 28. *STRAINER SCREENS- scope of work includes cleaning the strainer baskets (such as Hangar 4801). The specifications indicate 1/8" screens. As the strainers are existing, please confirm that they are not to be upgraded if it turns out the screens are not per specification.*

Answer 28. No replacement of existing screens is needed. Clean only.

Question 29. *MEZZANINES- there are 2 Mezzanines in 4833 that currently have no fire sprinklers. Shall fire sprinklers be installed as part of this work scope?*

Answer 29. Add sprinklers to new rooms located below mezzanine as shown on F-200B Detail 2. Sprinklering the other mezzanine is not within the scope of this project.

Question 30. *COLUMN SPRINKLERS- the Hangars currently have fire sprinklers at the Columns (both sides). Shall these sprinklers be replaced as part of the base scope? Likewise, shall these be included in the hydraulic calculations?*

Answer 30. Yes, these sprinklers shall be replaced as part of the base scope and should be included as necessary in hydraulic calculations.

Question 31. *SOLENOIDS- are the existing Solenoids 24 volt?*

Answer 31. Yes.

Question 32. *CHECK VALVE- plans indicate a relocated (re-used) Check Valve at 4840. Please confirm whether it is to be re-used as-is or replaced (since its condition is unknown; i.e., does it perform properly).*

Answer 32. Remove existing check valve designated by Note number 6 on Sheet F-203E and replace new in location shown on drawings.

Question 33. *Paragraph 1.6.1/2 refers to manual stop only. Paragraph 2.2 refers to Automatic stop. The fire pump controller will have either capability, but the final setting should be specified.*

Answer 33. The fire pumps will be manual stop.

Question 34. *Paragraph 2.7.1 states that the fire pump controller should be an "…electronic soft start starting type". Medium and High Voltage fire pump controllers are all "Across the Line start" type of controllers. Soft Starting is not an option in Medium and High Voltage fire pump controllers.*

Answer 34. See Question 26 and Answer 26.

Question 35. *Paragraph 2.9.2 states that the Jockey pump controller should run for 2 minutes after the stop pressure has been reached. Current technology now permits the Jockey Pump controller to shut off at its stop pressure and not re-start for a 5 second delay. This Paragraph 2.9.2 states that the Jockey pump controller should run for 2 minutes after the stop pressure has been reached. Current technology now permits the Jockey Pump controller to shut off at its stop pressure and not re-start for a 5 second delay. This eliminates restarts due to water hammer and eliminates the need to run the controller past the stop pressure and the inherent risk of over pressurizing the system.*

Answer 35. Stop jockey pump immediately per manufacturer's recommendation rather than run for 2 minutes after the stop pressure is reached.

Question 36. *Paragraph 3.9.3.2 (Starting Tests) states that there will be a total of 20 starts (10 automatic and 10 manual) required during the acceptance test, and that each start shall run for a minimum of 15 minutes. As a point of information only, the current edition of NFPA-20 requires a total of 12 starts, 6 automatic and 6 manual, with a minimum of 5 minutes runtime on each start.*

Answer 36. See Answer 10.

Question 37. *Paragraph 3.9.3.2 also states that "…electric motors over 200 HP shall not be started more than 2 times in 10 hours", Request verify this is a valid requirement and please cite reference.*

Answer 37. Starting frequency shall be in accordance with the manufacturer's requirements.

Question 38. *What voltage is available? Depending on voltage, electronic soft start may not be available. If medium voltage (2300V+), only across the line is available.*

Answer 38. See Sheet E-200 for available voltage.

Question 39. Section 2.6 says not to exceed motor nameplate. Does this allow for standard 1.15 service factor, i.e. 600 HP motor can be applied to 690 BHP per NFPA 20?

Answer 39. The 1.15 service factor will be allowed.

Question 40. *Are we re-using existing flow meter and hose valve header for testing?*

Answer 40. See Answer 12.

Question 41. *On the Solicitation the synopsis states that a new 600,000 gallon fire water tank is to be provided in this contract. The contract drawings and specifications do not address this scope of work. Please clarify.*

Answer 41. See Amendment 1.

Question 42. *Primary Scope 4840 and Option 2 4833: The finish schedule for the new rooms 101 and 102 on sheet A-802 does not show 4" cove base on wall type 1 but the details do. Please clarify if cove base is required for rooms 101 and 102 and the 4840 pumproom divider wall.*

Answer 42. Yes, provide 4" rubber cove base for all newly constructed walls.

Question 43. *The pumproom in 4840, shows a new wall being constructed. Will the new room require new switching for existing lights?*

Answer 43. Yes, provide switch for existing lights just outside the door swing.

Question 44. *The new wall within the pumproom in 4840 is not shown as a fire rated wall. Please clarify if this wall is to be fire rated.*

Answer 44. Yes, provide a 1 hour fire resistance rated wall with a 20 minute fire resistance rated door.

Question 45. *Option 2 4833. On the jobwalk it was mentioned that the mezzanine was to be relocated. This is not seen on the plans.*

Answer 45. The mezzanine is not to be relocated.

Question 46. *Specification Section 01 11 00 pages 12 and 13 show 14 days between phases. What is the purpose for the 14 days?*

Answer 46. The 14 days in between phases is for Operations at the center to move assets and to prepare the work area for the next phase.

Question 47. What type of foam concentrate is currently in the foam concentrate tanks that are being demolished?

Answer 47. Milspec 3% AFFF. There is a mixture of Ansul, Chemguard and 3M foam concentrate. The foam concentrate is to be removed and disposed of as part of this project.

Question 48. Sheet A-201 Note 5 and Sheet A-202 Note 1 states "…Existing painted roof structural members do contain lead based pain." Please clarify that this is lead paint.

Answer 48. Yes, this note is to indicate that there is lead paint on the structural members.