

2. AMENDMENT/MODIFICATION NO. R0004
 3. EFFECTIVE DATE 11/27/02
 4. REQUISITION/PURCHASE REQ. NO.
 5. PROJECT NO. (If applicable)
 6. ISSUED BY CODE J4P0000
 7. ADMINISTERED BY (If other than Item 6) CODE DACA85
 US ARMY ENGINEER DISTRICT, AK
 CEPOA-CT (DACA85)
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 FAIRBANKS, ALASKA 99703-0066

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
 CODE 089C4 FACILITY CODE
 (X) 9A. AMENDMENT OF SOLICITATION NO. DACA85-02-R-0023
 9B. DATED (SEE ITEM 11) 10/04/02
 10A. MODIFICATION OF CONTRACT/ORDER NO.
 10B. DATED (SEE ITEM 13)

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.
 Offer 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 0 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)
 PROJECT TITLE AND LOCATION: Construct Baghouse, Eielson AFB, Alaska

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

(X) 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.)
 PROPOSAL DUE DATE IS 09 JAN 03, 4:00 pm, local time, at the US Army Corps of Engineers, 2204 Third Street, Rm 29, Elmendorf AFB, Alaska.

NOTICE TO OFFERORS: Please mark outside of envelope to show amendment received. You are required to acknowledge receipt of amendments on the reverse side of Standard Form 1442.

A REMINDER THAT ELMENDORF AFB IS STILL UNDER TIGHT SECURITY. BE SURE TO HAVE ALL NECESSARY PAPERWORK NEEDED TO OBTAIN A BASE PASS AND GIVE YOURSELF PLENTY OF TIME TO PROCESS THROUGH THE BONIFACE GATE,

Except as provided herein, all terms and conditions of the document referenced in Item 9A 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 SIGNER (Type or print)
 15B. CONTRACTOR/OFFEROR
 15C. DATE SIGNED
 16B. UNITED STATES OF AMERICA
 BY
 16C. DATE SIGNED

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1. Reference Amend. 0002, Narrative Amendments #2 & #3 ---- It appears that the basic bid "Bag Life Warranty" is to be 3 years, but with your optional "price increments" warranties for 3 years and for 5 years are required. Does this mean you actually want the prices to warrantee the bags for a total of 6 years and a total of 8 years?

The base bid shall include a warranty for a total of 3 years. The requirement to provide a price for a 5-year warranty is deleted.

2. Reference above plus #4. of the Conference Questions and the Proposal Schedule (pg. PS-1) ---- Pricing for the Options is to be submitted in the "Bid Data", yet #4 states, "There are no options associated with this solicitation." Also, there is no place for the prices on sheet PS-1. Please clarify.

See question #1 above.

3. Reference Spec 01010-1.5 (pg. 6) ---- This paragraph requires all design drawings to be "signed and sealed" by Alaska register engineers and architects. You have included FAR 52.236-25 at page 101 of 127 in spec section 00700 and this FAR allows any Professional registration in the United States or its possessions.

Alaska registration is required to sign and seal water and sewer designs per 18 aa C72, Alaska Administrative Code. Alaska registration is not required for any other design discipline.

4. Reference Specification Section 00100, TAB C: Proposed Equipment & Outline Specifications, Item 8, page 8 – This requests that the bidder "Provide outline specifications for all divisions and sections encountered, indicating adequate information to establish the level of quality to be expected by the government." In Section 00100, Part II, One-Step Request for Proposal (RFP) Process, page 4, the evaluation criteria include "Proposed Equipment and Outline Specifications." Are the Outline Specifications to be included with the proposal or just an outline of the specifications?

Provide only an outline of the specifications that will be utilized.

5. Reference Specification Section 01012, Article 2.1.1, page 3 of the RFP – This states: "The Design Analysis shall follow the format presented in Appendix B of ER 1110-345-700 ...". Appendix B of ER 1110-345-700, page B-3, Article 5.b (3) states: "All materials will be prepared in relation to a vertical oriented A4 metric, 210 mm x 297 mm (8.3 inches x 11.7 inches) standard page size (8-1/2 x 11-inch when metric paper stock is not available)." Does the Design Analysis and all other technical documents (e.g. proposal, specifications, etc) have to be done on A4 metric paper or can they be done on 8-1/2 x 11 inch paper?

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Since this design will be in Imperial units, the requirement for metric sized sheets is deleted. Please use 8-1/2 x 11 inch paper for your proposal. You may use larger sizes at your discretion for such items as schedule or any drawings if it will help to convey your solution.

6. Reference Specification Section 01012, Article 2.1.1, page 3 of the RFP –This states that “The Design Analysis shall follow the format in Appendix B of ER 1110-345-700excluding part 6 “Exceptions to Appendix B Requirements.” Is it the intent that the design analysis document be submitted with each of the design submittals? If so, is the Contractor to exclude decisions/assumptions that should have already been addressed in preparation of this RFP? (It appears that Appendix B includes sections that are applicable to decisions that would have already been made on the project. For example, “Completed Environmental Impact Assessment in Part 2, Item 2.a.(1).) Is there a preliminary Design Analysis that has already been issued? Can it be provided for reference?

The design analysis documents shall be submitted with each design submittal. Include the decisions/assumptions that have been addressed in the RFP or reference the RFP in the analysis. See request for clarification, question 2.

7. Reference Specification Section 01012, Article 2.1.2, page 3 – This states: “Drawings for the 65 percent submittal shall follow the format presented in Appendix C of ER 1110-345-700 for standard and definitive design drawings”. Appendix C of ER 1110-345-700, page C-4, Article 5.a (1) states: “Concept and final design drawings, and drawings for standard and definitive designs, will be prepared on standard A1 metric size sheets, 594 mm x 841 mm (23.39 inches x 33.11 inches); an American National Standards institute (ANSI) “D” Equivalent sheet. This gives the impression that all future design drawings need to be in metric; however, the Request for Proposal drawings are in English units. We would prefer to use ANSI D drawing sizes and English units on the drawings. Are design drawings, including drawings from equipment vendors, acceptable in English units or are they required to be converted into metric dimensions?

English units and ANSI D drawing sizes shall be used.

8. Reference Sect. 00100, “TAB C” Sentence ‘8’ (pg. 8) ---- Please clarify this requirement.

The cut sheets are evidence of the offerors understanding of the project.

9. Reference Sect. 00100, “TAB C” (pg. 7) ---- Please furnish a list of all equipment requiring catalog data to be submitted in Tab C of the RFP.

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Cut sheets should be limited to major pieces of equipment, i.e. baghouse, ID fans, etc.

10. Please clarify 'Proposal Schedule' (pg. PS-1). Where is the '5-foot line' located?

All items are considered to fall within the 5-foot line.

11. Drawing C3.1 shows the East Baghouse finish floor at 543.3 feet however, Det. 1/M3.1 states the floor level is 541' -0". The West Baghouse has the same floor levels. What is the finish floor elevation and/or is the 2.5 feet difference correct?

The reference to elev 541'-0" made in the title of details 1/M3.1 and 1/M3.4 should be changed to elev 543'-6".

12. Drawing C3.2 has two different size rectangles, just south of the WFB and both labeled "Ash Silo Concept Footprint". Please furnish more details on what you want in these locations.

See section 11700.1.2.1.d.6

13. Reference Spec 00100 (pg. 5) --- Right under "TAB A: EXPERIENCE", shouldn't it be "...Part V, items 1, 2, and 3" (instead of just 1 and 2)?

Yes.

14. Reference Spec 00100 (pg. 8) --- Tab D allows 48 hours after proposal submission to submit the Subcontracting Plan, however, page 15 only allows 24 hours. Please clarify and allow 48 hours as 24 hours is not enough time.

Change time allowed to two working days.

15. Near the end of the first sentence at top of page 4 of Spec 00120 it states, "... no submission of Volume II will be required (for small businesses)". Please clarify.

Delete words "Volume II" and replace with "Subcontracting Plan".

16. Spec 11700-2.9 (pg. 17) requires a 2" dia. Clean-up connection at each of the four module, six baghouses (for a total of 6). Detail 2/M3.1 shows two connections and the note states "Typ of 4" at the East Filtration Building. Detail 2/M3.4 (West Filtration Bldg.) appears to show two connections, but has no note. Are there 8, 6, or 4 connections?

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The Contractor is to provide four clean-up connection in each of the filtration buildings; two each for the upper level of each building, and two each for the lower level of each building.

17. Reference Spec 11700-2.13.6 (pg. 21)— The design/manufacturer (UCC) of the existing Eielson AFB silo at the CHPP does not know what a 'vibrating rod' level switch is and the instrumentation people do not know either. The standard for silo level detection is an "ultrasonic level transmitter" with a rotating indicator for 'high-high' level detection and this is what is in the existing silo. Please clarify what you want and furnish us with a suggested manufacturer and model number.

This specification for the type of level detection in the ash silo conflicts with that provided in Section 13405, paragraph 2.2.2.1. This wording is as follows and should be substituted for the text in Section 11700, 2.13.6:

"Radiation sensors will not be used on this project. The following alternative devices may be used for ash level sensing:

- a) Tuning Fork or Vibrating Probe – provides an output indicative of vibration when not in contact with ash, and no vibration when contacting ash. Vibration prevents ash buildup.
- b) Microwave Transmitter – output signal proportional to measured depth ash, i.e. not a switch but full-range level transmission".

Additionally, the following will be added to both Section 13405, paragraph 2.2.2.1 and 11500, paragraph 2.1.8:

- c) RF Type – These switches employ a radio frequency (RF) balanced impedance bridge circuit to detect if the probe is in contact with the material that is to be sensed. Thus this detector can only be used for point level detection.
- d) Ultrasonic Type – a high frequency sound signal provides an indication of the presence or absence of a solid material surface interface.

Note that item a) corresponds to the vibrating rod description originally given in Section 11700 for level switch service.

18. Paraphrased from original; Section 11700, Paragraphs 2.16 and 2.17. The telescopic chute is unknown and may be problematic.

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The equipment referred to in the RFP is commercially available. This is a minimum requirement and other solutions may be proposed that provide a better value to the government.

19. Reference Specification Section 13852, Part 2, Para. 2.1 - this indicates that a new radio transmitter be provided for transmitting alarm signals from the new filter buildings FACPs, and that the radio transmitter unit be compatible with the existing site wide fire alarm system. In review of this specification section, however the existing alarm system vendor is never identified. Therefore, can the existing site wide fire alarm system manufacturer be identified so that a compatible transmitter may be supplied for this project?

The base uses Monaco D-700

20. Electrical Power Analysis Information - Is there an existing load flow, short circuit and coordination analysis/ report for the existing busses? If they exist, can we have a copy of the report? If they do not exist, what is the Fault duty and spare capacity available at our new connection points.

Fault analysis and spare capacity information should be obtained through site investigation of existing systems and Plant records. All available drawings you request are on file at either the power plant or the drawing vault of the Base Civil Engineer (building 2258) and are available at your convenience during normal business hours. Please schedule access to the Base through Norm Sams our Resident Engineer (907-377-4300). An AF technician or plant employee will be available to assist you with your research.

21. ID Fan Replacement Electrical/ I&C Information - Can we have the manufacturer/ model and design drawings for the existing ID Fan MCCs compartments? We need to confirm replacement requirements and confirm adequate space.

Information should be confirmed through site investigation.

The following are the manufacturer's model numbers for the existing I.D. fan circuit breakers. Verify all numbers during site investigation.

Distribution Center "1A"

I.D. Fan No. 1 - GE Type AK-2-25-2, 600A Frame, #166A111AK411MDPY(Trip Unit #0549D0497G1PY, Type EC-2A)

I.D. Fan No. 2U(Start) - GE Type AK-2-25-2, 600A Frame, #204A7623-31

I.D. Fan No. 2L(Run) - GE Type AK-2-25-2, 600A Frame, #179A4942-25-JA

I.D. Fan No. 3 - GE Type AK-1-25-2, 600A Frame #L-6418825-28 OJ(Trip Unit #6319453G-3)

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Distribution Center "1B"

I.D. Fan No. 4 - GE Type AK-2-25-2, 600A Frame, #0179A4740-7-HA(Trip Unit #0549D0497G1 HA, Type EC-2A)

I.D. Fan No. 5U(Start) - GE Type AK-2-25-2, 600A Frame, #179A2906-237 CA

I.D. Fan No. 5L(Run) - GE Type AK-2-25-2, 600A Frame, #204A7623-32 (Trip Unit - RMS-9 MicroVersa Trip)

I.D. Fan No. 6 - GE Type AK-2-25-2, 600A Frame, #179A4740-7-HA(Trip Unit #0549D0497G1 HA, Type EC-2A)

22. New Feeder Breakers Interface Information - Can we have the manufacture/ model and design drawings for the existing 12,470 V switchgear lineups being utilized for the new feeder breakers.

Information should be obtained during site investigation.

23. Switchgear Building Relocation Electrical/I&C Information - Can we have the existing design drawings for this building/system?

Information should be obtained during site investigation.

24. Chemical and Warehouse Electrical/I&C Information - Can we have the existing design drawing for the these building systems?

Information should be obtained during site investigation.

25. Existing Slip stream bag house Demolition Electrical/I&C Information - Can we have the existing design drawings for this area and equipment/ systems.

Information should be obtained during site investigation.

26. The specification drawings include works for relocation of underground electrical duct banks – Is this a complete depiction of the utilities in the area?

Primary duct banks are to remain in place during construction. The electrical site drawings depict work relevant to this project. Utility locates will be required before any excavation begins.

27. Ash Handling Electrical/I&C Information - Can we have the existing Ash Handling Electrical/ I&C design drawings?

Information should be obtained during site investigation.

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28. Can we have the Architecture Drawings for the Bailey System and any appropriate Bailey (logic and terminations) drawings associated with the existing Ash Handling interface, existing ID Fan interface and existing side stream bag house interface?

Information should be obtained during site investigation.

29. Can we have the existing COMs design drawings?

Information should be obtained during site investigation.

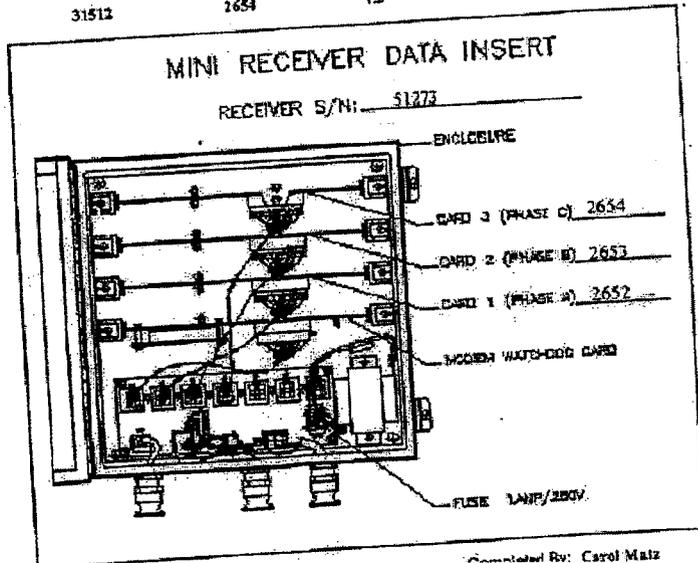
30. Can we obtain a General Arrangement Drawing locating the existing I&C equipment, including control room, DCS equipment, Ash Handling panel and existing side stream bag house panels?

Information should be obtained during site investigation.

31. On Drawing E3.1, relocation of receiver modules is noted - Can we have existing design drawings for this panel?

See below. Information should be confirmed through site investigation.

Receiver Box # : 51273	Modem # : 4999		
Model : 0351-001	Model : 0413-001		
Revision : B	Revision : B		
Connector Board # : 7229	Watchdog # : 3108		
Model : 0385-001	Model : 0393-001		
Receiver Card #	Receiver Card Pic #	Pic Version #	Eprom Version #
31510	2652	1.2	2.1
31511	2653	1.2	2.2
31512	2654	1.2	2.2



Prepared By: Carol Matz

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32. Reference Specification Section 00100, PART IV. SPECIFIC PROPOSAL REQUIREMENTS, TAB B: PAST PERFORMANCE, page 6 – For past performance documentation, can the bidders submit the Past Performance Questionnaires that were previously submitted to the Corps?

You should submit any past performance data that you feel will enhance your proposal. Projects that are in the gov't database (CCASS, etc) do not necessarily have to be included unless you feel there is reason to clarify or highlight a particular rating. If you do not have copies of previously submitted past performance questionnaires, please reference the proposal where they can be found and we will provide them to the selection board.

33. Are heat and ventilation required for all buildings including: Chemical Storage, Switchgear/Warm Storage, and Ash Silo Unloading?

These structures must be designed and constructed to conform to all applicable codes and standards as outlined in the specification. All structures require heating; ventilation requirements shall be provided in accordance with applicable codes.

34. What (and where) is the water source for the sprinkler piping?

The water source for the sprinkler piping system is available from the sprinkler header located in the basement at the Northeast corner of the CHPP.

35. Is potable and/or non-potable water required for any buildings? Where is the water source?

Neither potable water, nor non-potable water will be required in either filtration building, chemical storage building, warm storage building, or switchgear building; unless any building should require sprinklers in order to comply with the building codes as prescribed by the contractor's design.

36. How will piping utilities (glycol, potable water, non-potable water, sprinkler water) get from the source to the new buildings?

Use the existing Utilidor?
Is there room for additional piping in existing Utilidor?
Should electric heat be used instead of glycol in any cases?

Existing utilidors may be used. Short glycol service to warm storage and switchgear building may be direct-bury as designed by the contractor.

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37. Is sanitary sewer system required for any new buildings? Where should it be discharged?

A sanitary sewer is not required.

38. Where should interior roof drains be discharged – surface or dry well? Or is there an existing storm drain system?

Roof drains from filtration buildings should be brought back into the CHPP (through existing utilidors) and tied to CHPP roof drain system. Alternatively, the contractor could discharge roof drains into the cooling water discharge at the wet well located in the Northeast corner of the CHPP basement.

39. Please confirm the ash loading quantity for the baghouse (guarantee at outlet) is 0.01 “gr/dscf”. Typically 0.01 lb/million BTU is a specified guarantee. Refer to page 19 of Section 11500.

The value and units of the performance guarantee for baghouse collector outlet particulate concentration are confirmed to be 0.01 grains per dry standard cubic foot (gr/dscf).

40. How do we determine what data is to be sent to the Bailey DCS from the baghouse PLC's? Paragraph 13105.1.2.1.1 says that Minimal supervisory monitoring and control of the baghouse collectors will be required from the CH&PP DCS operator consoles.” There is only one point for each baghouse (i.e. UA-1900, plant level shutdown) shown on the drawing as specifically in the DCS, but according to the legend on sheet P1.1 almost all the data points are in the DCS (points with a circle in a square).

As stated in Section 01010, paragraph 1.1.2.2, “the concept design may not be complete, nor show all of the requirements necessary for the proper completion of the project. The concept design does present a conceptual design solution that is intended to meet the general requirements of the project. It is the bidder's responsibility to define the degree of information interchange between these systems, as part of your design solution.

While it is acknowledged that drawing P1.1 describes the P&ID symbols with circles surrounded by squares as ‘distributed control system function’, note 11 on drawings P1.2 through P1.7 does supply information implying that all symbols applicable to the baghouse system are to be addressed by the baghouse system controller.

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41. Where are the ID fan variation and bearing temperature inputs to be connected?
Paragraph 13405.1.2.1.1 states that "Controls associated with the new ID fan shall be wired to the existing Distributed Control System (DCS), and will include starting and stopping of the fan (s) as well as monitoring of the fan bearings for vibration and temperature." Paragraph 13405.1.2.3.2 says that "The baghouse control system will monitor the ID fan and VFD as shown on the P&ID drawings" and 13405.1.2.3.3 says that these points are to be logged by the baghouse PLC system. Are these points to be monitored on both the DCS and baghouse operator interface systems?

Note number 5 on drawings P1.8 – P1.13 Fan vibration and temperature shall be used to determine the manner in which fan bearing vibration and temperature signals are to be handled. The specifications sections referenced here (Section 13405, paragraph 1.2.1.1, paragraph 1.2.3.2 and paragraph 1.2.3.3) will be modified to remove these apparent inconsistencies.

42. What type of operator interface system is being used for the Bailey DCS? What version of this software is in use?

Bailey "Infa 90"

43. The soil report noted that Geomatrix Consultants performed an investigation on this site in 1996. Can we obtain that information?

All pertinent geologic information from that report is contained in the soils report included in this RFP. The Geomatrix Report was referenced to confirm that the existing soil characteristics in this area are susceptible to liquefaction.

44. In reviewing drawing E4.2 it appears that Bus #1C is located in the switch gear building. What is the conductor size, and what do they feed on the breakers that have no information on them?

Information will require field verification of conductor and circuit breaker sizes in Distribution Center "1C" by the contractor.

45. Do the existing diesel generators have the capability of load sharing, and , if so, where is the generator control panel that enables the operators to bring each of the units on line?

Plant Personnel or Base Outside Electric Shop must provide Information.

46. Is the twenty-one (21) day Government review period for 65%, 95% and 100% design submittals based in calendar or working days?

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Calendar days.

47. Will the government select the disposal site for asbestos and sign the disposal manifest? (Reference RFP Section 01015, paragraph 1.15)

See site shown on 02220 pg. 32.

48. The spec for this project calls for the VFD's to be installed a Nema 12 MCC. Can the drives be supplied in separate Nema 12 enclosures?

See drawing E4.2 and specifications.

49. During a site visit measurements of the areas indicated to be abated were taken. The quantities derived from these measurements indicate that there is at least 12,510 square feet of ACM to be removed.

Recalculations were made to determine the amount of materials to be abated. They resulted in the same quantities that were provided in the RFP. Please note that the insulation on the ID Fan housing does not contain asbestos and does not require abatement.

Narrative Amendments

1. Reference Amend. 0002, Narrative Amendments #2 & #3 ---- Change to read, "A three year warrantee is to be included in the base bid."
2. Reference Spec 01010-1.5 (pg. 6) ---- delete wording "in the State of Alaska". Add the following at the end of the paragraph, "All water and sewer design submittals and drawings shall be signed and sealed by an Engineer registered in the State of Alaska per 18 aa C72, Alaska Administrative Code."
3. Change reference to elev 541'-0" made in the title of details 1/M3.1 and 1/M3.4 to elev 543'-6".
4. Reference Spec 00100 (pg. 15) -- Change "... within 24 hours...." to "...within two working days..."
5. Reference Spec 00100 TAB D (pg. 8) --- Change "...within 48 hours..." to "...within two working days..."
6. Spec 00120, Page 4, First Paragraph --- Change "... no submission of Volume II will be required...." To "...no submission of a Subcontracting Plan will be required..."

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7. Section 11700, 2.13.6: Delete last paragraph and add the following:

“Radiation sensors will not be used on this project. The following alternative devices may be used for ash level sensing:

- a) Tuning Fork or Vibrating Probe – provides an output indicative of vibration when not in contact with ash, and no vibration when contacting ash. Vibration prevents ash buildup.
- b) Microwave Transmitter – output signal proportional to measured depth ash, i.e. not a switch but full-range level transmission”.

8. Section 13405, paragraph 2.2.2.1 add the following:

- c) RF Type – These switches employ a radio frequency (RF) balanced impedance bridge circuit to detect if the probe is in contact with the material that is to be sensed. Thus this detector can only be used for point level detection.
- d) Ultrasonic Type – a high frequency sound signal provides an indication of the presence or absence of a solid material surface interface.