

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 72	
2. AMENDMENT/MODIFICATION NO. 0004		3. EFFECTIVE DATE See Blk 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY Commander, Pacific Division (Code 021) Naval Facilities Engineering Command Bldg. 258, Makalapa Drive Pearl Harbor, HI 96860-7300		CODE C2742		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code)				(X)		9A. AMENDMENT OF SOLICITATION NO. N62742-95-R-1369	
						9B. DATED (SEE ITEM 11) 13 December 1996	
						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 (1) 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 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 ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO 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.)							
UNEXPLODED ORDNANCE (UXO) CLEARANCE PROJECT, KAHOLAWE ISLAND RESERVE, HAWAII							
The purpose of this amendment is to (1) extend the due date for receipt of offers, (2) provide replacement pages or replacement sections as a result of Amendment Nos. 0001 through 0003 and this amendment, (3) correct minor errors, and (4) incorporate questions and answers.							
(continued)							
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 CONTRACTING OFFICER (Type or print)			
				JAMES D. PUTNAM, Contracting Officer			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				BY  (Signature of Contracting Officer)		97 FEB 14	
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE		30-105		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243			

- Encl: (1) Section F (Replaced in its entirety)
(2) Section G (Replaced in its entirety)
(3) Section H (Replaced in its entirety)
(4) Section L (Replaced in its entirety)
(5) Section M (Replaced in its entirety)
(6) Replacement Pages (various)
(7) General Counsel of the Navy letter of January 31, 1997
(8) HTRW Remedial Action Work Breakdown Structure, Data Dictionary, Standard Descriptions
- A. The hour and date specified for receipt of offers is extended to 2:00 p.m. Hawaii Standard Time on March 18, 1997, as a result of this amendment.
- B. Replacement pages or revised sections for Amendments 0001 through 0003 have been incorporated into this Solicitation.
- C. Sections F, G, H, L, and M of the RFP are replaced in their entirety with their respective revised sections provided in enclosures (1) through (5). The changes are identified in bold italics.
- D. Replacement pages are provided in enclosure (6) for sections not replaced in their entirety. The changes are identified in either in bold italics or italics with vertical lines.
- E. The following revisions are incorporated into this Solicitation as follows.

SECTION F

Under Section F, Deliveries or Performance, incorporate the following changes into this solicitation:

- (1) Under the Table of Contents, replace the title of Paragraph F1 as follows:

Delete: FAR 52.242-15 STOP-WORK ORDER (AUG 1989)

Insert: FAR 52.242-15 STOP-WORK ORDER (AUG 1989) ALTERNATE I (APR 1984)

- (2) Under Paragraph F1, Page F-1, replace the title of the paragraph as follows:

FAR 52.242-15 STOP-WORK ORDER (AUG 1989) ALTERNATE I (APR 1984)

(3) Under Paragraph F1, Page F-1, replace Subparagraph (a)(2) in its entirety with the following:

(2) Terminate the work covered by the order as provided in the Termination clause of this contract.

(4) Under Paragraph F1, Page F-1, replace Subparagraph (b) in its entirety with the following:

(b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule, the estimated cost, the fee, or a combination thereof, and in any other terms of the contract that may be affected, and the contract shall be modified in writing, accordingly, if:

Section F is replaced in its entirety and provided in enclosure (1).

SECTION G

Under Section G, Page G-ii, incorporate the following change into this solicitation:

Delete:

<u>Para #</u>	<u>Title</u>	<u>Page #</u>
G13	FAR 52.219-9 SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED BUSINESS SUBCONTRACTING PLAN (ALTERNATE II) (MAR 1996)	G-12

Insert:

<u>Para #</u>	<u>Title</u>	<u>Page #</u>
G13	FAR 52.219-9 SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED SMALL BUSINESS SUBCONTRACTING PLAN (ALTERNATE II) (MAR 1996)	G-12

Section G is replaced in its entirety and provided in enclosure (2).

SECTION H

(1) Paragraph H8, Required Insurance on Page H-4 has been revised to reflect its applicability to the subcontractor as well as the prime contractor. The minimum type of insurance required for Aircraft Public Passenger Liability and Vessel Liability has also been added as follows:

Paragraph H8, Paragraph A, revise the first sentence as follows:

"A. Within thirty (30) days after award of this contract, the Contractor and the subcontractor, if the terms of the prime contract are extended to the subcontract shall furnish the Contracting Officer a Certificate(s) of Insurance as evidence of the existence of the following insurance coverage in amounts not less than the amount and type specified below in accordance with FAR 28.307-2."

Paragraph H8, Paragraph A, delete the word, "Comprehensive" from "Comprehensive General Liability."

Paragraph H8, Paragraph A, under Aircraft and Passenger Liability, insert the following at the end of the paragraph,

"Coverage for passenger liability bodily injury shall be at least \$200,000 multiplied by the number of seats or passengers, whichever is greater."

Paragraph H8, Paragraph A, under Vessel liability, add the following:

MARITIME INSURANCE

1. General. During the full period of this contract, for any vessel performing services pursuant to this contract, whether owner by the Contractor or under charter to the Contractor, the Contractor, vessel owner and/or operator of the vessel shall maintain the customary full-form marine insurance coverage on the Vessel (including cover against pollution damage and cargo loss), including Hull and Machinery, Protection and Indemnity (P&I), War Risk Hull and Machinery including P&I and Second Seamen's War Risk.

2. Limitation of Liability. Except as otherwise specifically provided herein, the Government shall not be liable for any loss, damage, expense, cost or liability whatsoever and howsoever incurred by the Owner of a vessel performing services under this contract or by the vessel or which are imposed upon such Owner or vessel by operation of law to the extent such loss, damage, expense, cost or liability would normally be covered by insurance of the type described in the preceding paragraph. Any amount due owner under this Article shall be subject to setoff by the Government to the extent of any amount recovered under insurance carried by the Contractor or to the extent of any amount recoverable under insurance required in the preceding paragraph.

3. Notification to the Government. Contractor, shall, to the maximum extent practicable, keep the Government, through the Contracting Officer, currently informed, in writing, as to the potential vitiation, suspension, lapse or termination of any of the Vessel's insurance policies required to be maintained pursuant to this clause.

4. Government Named Assured. The United States of America shall be named as an additional assured with waiver of subrogation under the Vessel's Hull and Machinery policy (and under the Increased Value policy if applicable), under the Vessel's P&I, and Second Seamen's War Risk. The naming of the United States on Owner's P&I policy shall be subject to the provisions of Owner's Privilege Clause, when such clause is substantially the same as Privileges Clauses standard in the maritime industry.

5. Deductible. In no event shall any of the foregoing insurance provided in this section, "Maritime Insurance," contain a deductible in excess of \$50,000.00.

Section H is replaced in its entirety and is provided in enclosure (3).

SECTION I

(1)	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	I-3	Sec. I	Subject solicitation is missing FAR clause 52.228-7, Insurance Liability - Third Persons. FAR 28.311-1 requires that this clause be used in cost reimbursement contracts. Request that 52.228-7 be added to the applicable clauses listed in Section I of the solicitation.

Answer:

Under Section H, Page H-6, delete Paragraph H14 in its entirety and replace with the following, "There are special provisions concerning indemnification by the U.S. Navy to the State of Hawaii during the period of Navy control of access to the Kaho'olawe Island Reserve. See Section 10001(e) of Title X, Public Law 103-139."

Under Section I, Page I-3, Paragraph I 1, incorporate the following clause after 52.227-14, Rights in Data - General, JUN 1987, as follows:

<u>FAR REF NUMBER</u>	<u>CLAUSE TITLE</u>	<u>DATE</u>
52.228-7	Insurance - Liability to Third Persons	MAR 1996

(2) Under Section I, Page I-3, Paragraph I 1, incorporate the following clause after 52.242-3, Penalties for Unallowable Costs, OCT 1995, as follows:

<u>FAR REF NUMBER</u>	<u>CLAUSE TITLE</u>	<u>DATE</u>
52.242-4	Certification of Indirect Costs	OCT 1995

(3) Under Section I, Page I-3, Paragraph I 1, FAR 52.233-3, Protest After Award (Alternate I), delete and replace the date as follows:

<u>FAR REF NUMBER</u>	<u>CLAUSE TITLE</u>	<u>DATE</u>
52.233-3	Protest After Award (AUG 1996) (Alternate I)	JUN 1985

(4) Under Section I, Page I-4, Paragraph I 1, DFARS 252.223-7002, Safety Precautions for Ammunition and Explosives, delete and replace the date as follows:

<u>DFARS REF NUMBER</u>	<u>CLAUSE TITLE</u>	<u>DATE</u>
252.223-7002	Safety Precautions for Ammunition and Explosives	MAY 1994

The replacement page is provided in enclosure (6).

SECTION L

Under Section L, incorporate the following changes into this solicitation:

(1) Under Paragraph L17, Page L-25, insert the following after Subparagraph D.5(c):

(d) It is strongly recommended that the HTRW WBS cost estimates and Cost Breakout forms for the Sample Project and PMO be submitted on a 3-1/2" diskette in the Microsoft Excel Version 5.0 format. If there is a discrepancy between the hard copy and the electronic file, the hard copy will take precedence.

(2) Under Paragraph L17, Page L-30, insert the following after Subparagraph E.3(a)(2):

(3) In addition, the Sample Project cost proposal breakdown of direct cost by HTRW WBS should be separately identified by costs associated with UXO Clearance, Base Camp and Temporary Roadway Improvements. A summary of indirect and direct costs for each of the services identified above should also be provided.

Section L is replaced in its entirety and provided in enclosure (4).

F. The following questions and answers are incorporated into this solicitation as follows:

GENERAL QUESTIONS:

1. Question

The RFP should specify that twin turbine helicopters are required for the Project, at least for portions of the contract requiring flight over water or hazardous terrain.

Answer:

Equipment requirements vary depending on the proposed type of transportation and are the responsibility of the offeror to determine.

2. Question

What percentage of Native Hawaiian business involvement is provided for in the Prime contract?

Answer:

There is no percentage requirement for Native Hawaiian involvement in the prime contract.

3. Question

Why have you neglected to include in the RFP the Akaka Amendment (Section 8127(A)(B)) which gives especial preference to businesses owned by Native Hawaiians?

Answer:

See letter from General Counsel of the Navy dated January 31, 1997 which is provided in enclosure (7).

4. Question

At what point can the contractor initiate conformance procedures for labor categories not covered by the SCA or DBA (i.e., laborers conducting sweep activities that require health and safety training)? How do we estimate costs for laborers in these categories while responding to the sample problem?

Answer:

(1) The Contractor should initiate conformance procedures for labor categories not covered by the Davis-Bacon Act (DBA) or the Service Contract Act (SCA) after contract award. See Section J, Attachment JL.11, for general information on the conformance process.

(2) For solicitation purposes, the offeror is responsible for developing a proposed rate which, if awarded, must be conformed and approved by the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor.

5. Question

What is the DBE requirement, if any, and how will it be used to evaluate proposals?

Answer:

If the acronym "DBE" refers to "Disadvantaged Business Enterprise," the requirement for subcontracting with Small Disadvantaged Businesses is included in the RFP under Section G, Paragraph G13, and Section I, various clauses addressing small disadvantaged businesses. Section L, Paragraph L17, Subparagraphs C.3(e) and (e)(1), provide instructions for submission of proposals regarding small disadvantaged businesses. Section M, Paragraph M5, Subparagraphs E.3(e) and (f), include the evaluation factors that will be used to evaluate offers. No preference will be given to contracting or subcontracting with large disadvantaged business enterprises.

6. Question

Consideration should be given to establishing an alternate approach which enables the prime to utilize fully qualified personnel available locally instead of importing this talent from the mainland at a premium cost.

Answer:

Additional credit will not be given for utilizing "fully qualified personnel available locally." See Section I, paragraph I12 which states, "The Contractor shall employ, for the purposes of performing that portion of the contract work in the State of Hawaii, individuals who are residents of the State,"

SPECIFIC QUESTIONS

<u>1. Page</u>	<u>Ref.</u>	<u>Question</u>
B-1 L-10	Sec. B, L17.	Section B states, "Base Year \$30,000,000 First Option Year \$40,000,000." Section L17.B states, "the budget estimate for the base year and first year is approximately \$20,000,000 to \$25,000,000." Please clarify the discrepancy between Section B and section L as to the project budget for the Base Year and the First Option Year. Is it Base Year = \$30,000,000/First Option Year = \$40,000,000 or Base Year = \$20,000,000-\$25,000,000/First Option Year = \$20,000,000-\$25,000,000

Answer:

The discrepancy is noted. The change is incorporated as follows:

Section L, Page L-10, Paragraph L17.B. Volume I - Technical Proposal.

Delete: (second sentence) Note: To assist in the preparation of your technical proposal, be advised that the budget estimate for the base year and first option year is approximately \$20,000,000 to \$25,000,000.

Insert: To assist in the preparation of your technical proposal, refer to the breakdown of the estimated cost plus award fee for the base year and each option year in Section B, Supplies or Services and Prices/Cost.

Section L is replaced in its entirety and provided in enclosure (4).

2. Page	Ref.	Question
B-2	B1	CLIN 0001AC Est. PMO Other Non-Fee Bearing Cost. Can you provide an example of "Other PMO non-fee bearing costs" <i>other than</i> travel, contractor-acquired property, including rentals, FCCM, and subcontracts?

Answer:

Subcontracts should be included in SLIN 0001AA, Estimated Recurring PMO Cost or SLIN 0001AE, Estimated Non-Recurring PMO Cost. Travel should be included in SLIN 0001AB, Estimated Recurring PMO Non-Fee Bearing Travel Cost or SLIN 0001AF, Estimated Non-Recurring PMO Non-Fee Bearing Relocation Cost. "Other PMO Non-Fee Bearing Costs" includes contractor-acquired property, rentals, and FCCM.

3. Page	Ref.	Question
B-2	B1	What should the assumed contract start date be for pricing purposes?

Answer:

As stated in the synopsis published in the Commerce Business Daily on October 3, 1996, the estimated start date is July 1, 1997, however, this date is subject to change because of uncertainties that may occur in the pre-award stage.

- | 4. | <u>Page</u> | <u>Ref.</u> | <u>Question</u> |
|----|--------------|-------------|---|
| | B-2 -
B-9 | B1 | Will the Government consider including a nominal base fee (e.g. 2%) as part of the total award fee? |

Answer:

No. By establishing the base fee at 0%, the Contractor is given an opportunity to earn fee commensurate with optimum performance.

- | 5. | <u>Page</u> | <u>Ref.</u> | <u>Question</u> |
|----|--------------|-------------|---|
| | B-1 -
B-9 | Sec. B | Please identify what elements comprise Non-Fee Bearing Travel Cost. |

Answer:

Non-fee bearing travel costs include those travel costs described in Section G, Paragraph G20.

- | 6. | <u>Page</u> | <u>Ref.</u> | <u>Question</u> |
|----|-------------|--------------------|---|
| | JL.2-i | Section C,
JL.2 | Request information on the following documents and how to obtain a copy of each.
1) Navy NAVFAC Design Manual 5.5, General Provisions and Geometric Design for Roads, Streets, Walks, and Open Storage Areas (current version)
2) Military Handbook 1005/2, Hydrology, Military Handbook 1005/3, Drainage Systems
3) UXO Clearance Results Map (current version from Model Cleanup)
4) Topographic Survey-Unexploded Ordnance (UXO) Model Cleanup Map, May 1996 |

Answer:

For items 1) and 2) above, the Navy NAVFAC Design Manual and Military Handbooks are available for viewing at the Pacific Division, Construction Contracts Branch, Bldg. No. 62, 4262 Radford Drive, Honolulu, Hawaii. The documents may also be obtained from the Naval Publications and Forms, Naval Aviation Supply Office, in Philadelphia, Pennsylvania. See Amendment No. 0002 issued on January 24, 1997.

For items 3) and 4) above, the UXO Clearance Results Map and Topographic Survey Map are available at the libraries, the Construction Contracts Branch, and the Compact Disc of the RFP as noted in Section C, Paragraph 15.0.

7.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	C-1	C.1.0,	Other than Jefferson Proving Ground, what testing environment will the Navy accept, and what documentation is required, to prove the detection probability of 85% of new or emerging detection equipment for acceptance and use on Kaho'olawe.
	C-7	C.1.2.6.1	
	C-8	C.1.2.6.2	

Answer:

Facilities on Kaho'olawe Island will be employed for detection verification purposes.

8.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	C-10	C.1.3.3.1	For the purpose of evaluating qualifications, how will the Government credit higher education above the stated level? (i.e. what are the equivalent years of experience for M.A. or Ph.D.?)

Answer:

Specified are minimum requirements. The Government will give additional credit for exceeding these minimum education requirements, if the proposer can demonstrate that the additional education requirements will result in meaningful quality enhancement of the work performance.

9.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	C-10 - C-26	C.1.3.3 C.1.3.4	Will the Government accept a candidate who is fully qualified in all other respects, but does not have certification, subject to attainment of the required certification within a certain period, e.g. within six months of award of contract?

Answer:

The Government will only accept candidates who are fully qualified and meet at least the minimum requirements of the RFP. However, see Section L, paragraph L17.C.4(b).

10. Page	Ref.	Question
C-10	C.1.3.3	Are the "minimum Required Qualifications of Key Personnel" intended to be minimum acceptable qualifications or are they intended to be basis for evaluation of the relative qualifications of key personnel?

Answer:

They are the minimum acceptable qualifications for Key Personnel. However, see Section L, paragraph L17.C.4(b).

11. Page	Ref.	Question
C-10	C.1.3.3.1 C.1.3.3.2	The qualifications outlined for the PM and SPM are very narrowly focused on UXO operations. The UXO industry is relatively young with a history of small dollar value contracts which significantly limits the number of individuals available with the background specified in the RFP. This reality will result in most contractors competing for this procurement finding it difficult if not impossible to locate a quality PM and SPM with these qualifications. In addition, it will preclude companies with strong management and integration reputations from assigning a PM or SPM with the corporate heritage that has historically engendered success. Therefore, in lieu of only UXO clearance operations, will the government consider the following experience in hazardous environments that reflect the broad diversity of skills required by the PM and SPM for the successful execution of this contract? • Environmental remediation • Ammunition/explosives logistics • EOD operations • Remote logistics operations to include water craft and helicopter operations • Military operations at remote locations (islands) to include base camp operations • Ordnance management • Management of large budgets in related fields

- Management of large complex/diverse operations with most of the same activities as the RFP specifies
- Facilities Management

Answer:

The qualifications for the Program Manager (PM) have been changed as follows:

Revise Section C.1.3.3.1 Program Manager (PM), subparagraph (c) as follows:

Delete: the period (.) at the end of the sentence.

Insert: (at the end of the sentence) "is highly desirable."

The replacement page is provided in enclosure (6).

The qualifications for the Senior Project Manager (SPM) remain as specified, however, Section L, Page L-22, Paragraph L17, Part C, Subpart 4, subparagraph (b) is revised as follows:

"(b) Following your proposal for an organizational structure and incorporation of position titles and functional responsibilities in accordance with Section C, paragraph 1.3, you may separately propose an alternate organizational structure; innovation and creativity is encouraged. The alternate organizational structure may involve changes to the positions, position titles, personnel qualifications, and functional responsibilities of Key Personnel, Non-Key Personnel, and those positions listed in Section C, paragraph 1.3, subparagraph c, Other Personnel.

Section L is replaced in its entirety and is provided in enclosure (4).

Revise Section M, Paragraph M5.E.4(c) as follows:

Delete: in its entirety.

Insert: Quality, feasibility, and comprehensiveness of the alternate approach to the Contractor's organizational structure for Key, Non-Key and Other Personnel. Adequacy of proposed changes to the minimum personnel qualifications.

Section M is replaced in its entirety and provided in enclosure (5).

12. Page	Ref.	Question
C-11	C.1.3.3	These paragraphs delineate the duties and minimum required qualifications of Key and Non-Key personnel. The Joint Military Services adopted the Master EOD Technician designation in the mid 1970's. Master EOD Technicians are normally designated according to service particular requirements and in general, it requires 10 years to earn the designation. In cases where an EOD Technician served honorably for 10 or more years before 1974, may these individuals be considered as qualified Master EOD Technicians?

Answer:

Yes, if adequately documented.

13. Page	Ref.	Question
C-11	C.1.3.3.4	Can the RFP personnel qualification requirements for the Project Health and Safety Manager (HSM) be realigned to reflect the primarily UXO mission of the project?

Answer:

The Unexploded Ordnance Safety Officer (UXOSO) is required to meet the minimum Unexploded Ordnance (UXO) qualifications to ensure proper UXO safety. However, offerors are free to propose an HSM with UXO/Explosive Ordnance Disposal (EOD) experience.

14. Page	Ref.	Question
C-12	C.1.3.3.4 C.1.3.3.4.1	(1) The qualifications of the UXOSO and the Construction Safety Officer (CSO) are such that the Project Health and Safety Manager (HSM) is required to directly supervise all (100%) of their activities if they are uncertified, as opposed to fifty percent (50%) of the time indicated in the HSM Section. Please clarify.
C-16 C-17	C.1.3.4.5 C.1.3.4.6	(2) Is this supposed to be the Project Health and Safety Manager in Sections 1.3.4.5.a and 1.3.4.6.a?

Answer:

- (1) Follow the requirements of C.1.3.3.4.1.
- (2) The Project Health and Safety Manager is the correct position title. Section C.1.3.4.5a is revised as follows:

Delete: (second sentence)

Insert: "If not so certified, the UXOSO shall work only under the direct on-site supervision of the Project Health and Safety Manager who is a Certified Safety Professional, as provided for in Paragraph 1.3.3.4.1."

Section C.1.3.4.6a is revised as follows:

Delete: in its entirety.

Insert: "Certified Safety Professional under continued certification by the Board of Certified Safety Professionals; if not so certified, shall work only under the direct on-site supervision of the Project Health and Safety Manager who is a Certified Safety Professional, as provided for in Paragraph 1.3.3.4.1."

The replacement page is provided in enclosure (6).

<u>15. Page</u>	<u>Ref.</u>	<u>Question</u>
C-12	C.1.3.3.4	Would a Certified Industrial Hygienist, board certified by the American Board of Industrial Hygienists, be considered equivalent to a Certified Safety Professional? Are there experience qualifications which would make a CIH acceptable for this position?

Answer:

The requirement is for a Certified Safety Professional. However, see Section L, Paragraph L17.C.4(b), which indicates that offerors may propose an alternate organizational structure with duty positions and qualifications that differ from those stated in Section C. This may include alternative certification means for the Project Health and Safety Manager.

16. Page Ref. Question

C-13 C.1.3.3.6 Can the RFP personnel qualification requirements for the Project Quality Control Manager be realigned to reflect the primarily UXO mission of the project?

Answer:

Offerors are free to propose a Project Quality Control Manager (PQCM) with UXO/EOD experience. UXO qualifications, while desirable, are not necessary for the overall management of the Project Quality Control Program or for the supervision of subordinate Quality Control (QC) levels. The personnel qualifications embodied in the Request for Proposal (RFP) reflect the overall requirements of the project, including UXO, Construction, and Historic Properties.

17. Page Ref. Question

C-13 C.1.3.3.6 The referenced paragraphs of the RFP require key and non-key Quality Control personnel to be certified by the ASQC (American Society for Quality Control) in one of three disciplines: Certified Quality Manager, Certified Quality Engineer, or Certified Quality Auditor. However, the ASQC certification program is only one of the commonly accepted programs for Quality Control personnel. Another program, and one that is almost universally accepted by both government and non-government organizations, is the certification of Audit Team Leaders and Lead Auditors under the requirements of the ASME NQA-1 standard. In fact, NQA-1 specifies more stringent criteria in terms of experience and practical demonstration of knowledge to qualify for certification as a QA Audit Team Leader/Lead Auditor than does ASQC. In order to provide access to the ASME NQA-1 community of highly qualified QC candidates, we request that an NQA-1 Lead Auditor or Audit Team Leader certification be added as acceptable alternates to the ASQC certification requirement.

Answer:

As indicated in Section L, Paragraph L17.C.4(b), offerors may propose an alternate organizational structure with positions and qualifications that differ from those stated in

Section C. This could include alternative certification means for Quality Management personnel.

18. Page	Ref.	Question
C-13	C.1.3.3.6	Would an equivalent requirement be a certified QC Specialist under certification by the U.S. Army?

Answer:

The responsibilities of the Project Quality Control Manager warrants the requirement for a Certified Quality Professional under certification by the American Society of Quality Control as stated in C.1.3.3.6.b. As indicated in Section L, Paragraph L17.C.4(b), offerors may propose an alternate organizational structure with duty positions and qualifications that differ from those stated in Section C. This could include alternative certification means for the Project Quality Control Manager.

19. Page	Ref.	Question
C-13	C.1.3.3.6	There is an apparent conflict between these positions and the direct supervision requirements specified.
C-18	C.1.3.4.9	

Answer:

If the question refers to the supervision of the HPQCM by the PQCM, should the HPQCM not be ASQC certified, see RFP Section C, Paragraph 1.3.4.9, subparagraph e, on Page C-19. Additionally, the HPQCM should be included in RFP Section C, paragraph 1.3.3.6.1.

Revise Section C.1.3.3.6.1 as follows:

Delete: in its entirety

Insert: "In the event that the UXOQCM, CQCM, or HPQCM is not ASQC-certified (CQE or CQA), the PQCM shall provide direct, on-island supervision and oversight to the uncertified QC staff for no less than fifty percent (50%) of the field operations."

The replacement page is provided in enclosure (6).

20. Page Ref. Question

C-14 C.1.3.3.6.1 The qualifications of the Unexploded Ordnance Quality
C-17 Control Manager (UXOQCM) (C.1.3.4.7) and Construction
C-18 Quality Control Manager (CQCM) (1.3.4.8) do not say
anything about direct (or any other kind of) supervision by
the PQCM. Please clarify.

Answer:

Section C.1.3.3.6.1 establishes the supervision requirement for uncertified QC personnel. We recognize that a limited field of candidates may hold both the technical skills (UXOQC Management, Construction QC Management, or Historic Properties QC Management) and also hold CQE or CQA certification. To accommodate this limitation, the alternative of supervision by a CQE or CQA certified Project Quality Control Manager has been provided. Requirements for direct supervision assure proper execution of the overall Quality Program.

21. Page Ref. Question

C-15 C.1.3.4.5 (1) Please clarify if the Project Safety Officer is the same
position as the key personnel position of project Health
and Safety manager or if the Project Safety Officer is an
additional position.
C-16 C1.3.4.5a (2) (third line) Refers the "Project Safety Officer". Is this the
"Project Health and Safety Manager" as listed under
1.3.a?
C-17 C1.3.4.6.a (3) (third line) Refers to "Project Safety Officer." Is this the
"Project Health and Safety Manager" as listed under
1.3.a?

Answer:

Project Health and Safety Manager is the correct position title. See answer to Question No. 14 above.

22. Page Ref. Question

C-15 C.1.3.4.5 Request that this requirement be re-evaluated and modified
to equalize the opportunity.

Answer:

The Government recognizes that there are differences between each of the Military Services in time/experience requirements for qualification as Master EOD Technician. The Government will apply the lowest minimum time requirement of 6 years, employed by Navy, as the Master EOD Technician qualification criteria. The total experience required by a specific contractual position is as delineated in the minimum qualifications.

23. Page Ref. Question

C-17 C.1.3.4.7 (second line) Refers to "Program Quality Control Manager".
Is this the "Project QC Manager" as listed under 1.3.a?

Answer:

Project QC Manager is the correct position title.

Revise Section C.1.3.4.7 as follows:

Delete: (first sentence)

Insert: "The UXO Quality Control Manager is responsible to the Project Quality Control Manager for developing and implementing specific UXO sections of the Project Quality Control Plan in compliance with the Federal, DOD, and Navy requirements."

The replacement page is provided in enclosure (6).

24. Page Ref. Question

C-17 C.1.3.4.7 The minimum qualifications for the UXOQCM state that the candidate have "Certification in the Quality Sciences," be a "Graduate of the Naval EOD School," and have qualifications as a "Master EOD Technician". The alternate qualifications state that the candidate may have completed the US Army QASAS career program and have 15 years experience of QASAS experience. Are these alternate qualifications also in lieu of having attended the EOD school?

Answer:

A limited field of candidates may hold both UXO technical skills and Certification in the Quality sciences. Quality Assurance Specialist Ammunition Specialist (QASAS) can provide a viable option to broaden the field while still meeting program quality objectives. The training and experience embodied in the alternative QASAS qualifications are not intended to replace EOD training, but will enable use of alternative skills and strengths in both the Ordnance and Quality Assurance fields.

<u>25. Page</u>	<u>Ref.</u>	<u>Question</u>
C-17	C.1.3.4.7	If the staff proposed for the UXOQCM or the CQCM positions are not Certified in the Quality Sciences as a CQE or CQA, will he or she fail to meet the minimum requirements for the position, or is the direct, on-site supervision of the PQCM adequate to overcome these deficiencies?
C-18	C.1.3.4.8	

Answer:

As indicated in Section C.1.3.3.6.1, direct on-site supervision by a certified individual is intended to provide an alternative means for uncertified personnel in those positions.

Revise Section C.1.3.4.7.b , Page C-17 as follows:

Insert: (at end of sentence) "If not so certified, the UXOQCM shall work only under the direct on-site supervision of the Project Quality Control Manager, who is a Certified Quality Professional, as provided for in Paragraph 1.3.3.6.1 above."

Revise Section C.1.3.4.8.d, Page C-18 as follows:

Insert: (at end of sentence) "If not so certified, the CQCM shall work only under the direct on-site supervision of the Project Quality Control Manager, who is a Certified Quality Professional, as provided for in Paragraph 1.3.3.6.1 above."

<u>26. Page</u>	<u>Ref.</u>	<u>Question</u>
C-17	C.1.3.4.7	Will the alternate minimum qualifications identified on page C-18 for the UXOQCM position be evaluated equally with the minimum qualifications identified on page C-17?
C-18		

Answer:

A limited field of candidates may hold both UXO technical skills and Certification in the Quality sciences. Quality Assurance Specialist Ammunition Specialist (QASAS) can provide a viable option to broaden the field while still meeting program quality objectives. The training and experience embodied in the alternative QASAS qualifications are not intended to replace EOD training, but will enable use of alternative skills and strengths in both the Ordnance and Quality Assurance fields.

<u>25. Page</u>	<u>Ref.</u>	<u>Question</u>
C-17	C.1.3.4.7	If the staff proposed for the UXOQCM or the CQCM positions are not Certified in the Quality Sciences as a CQE or CQA, will he or she fail to meet the minimum requirements for the position, or is the direct, on-site supervision of the PQCM adequate to overcome these deficiencies?
C-18	C.1.3.4.8	

Answer:

As indicated in Section C.1.3.3.6.1, direct on-site supervision by a certified individual is intended to provide an alternative means for uncertified personnel in those positions.

Revise Section C.1.3.4.7.b , Page C-17 as follows:

Insert: (at end of sentence) "If not so certified, the UXOQCM shall work only under the direct on-site supervision of the Project Quality Control Manager, who is a Certified Quality Professional, as provided for in Paragraph 1.3.3.6.1 above."

Revise Section C.1.3.4.8.d, Page C-18 as follows:

Insert: (at end of sentence) "If not so certified, the CQCM shall work only under the direct on-site supervision of the Project Quality Control Manager, who is a Certified Quality Professional, as provided for in Paragraph 1.3.3.6.1 above."

<u>26. Page</u>	<u>Ref.</u>	<u>Question</u>
C-17	C.1.3.4.7	Will the alternate minimum qualifications identified on page C-18 for the UXOQCM position be evaluated equally with the minimum qualifications identified on page C-17?
C-18		

Answer:

The alternate UXOQCM qualifications delineated on page C-18 will be evaluated with the primary UXOQCM qualifications cited on page C-17.

<u>27. Page</u>	<u>Ref.</u>	<u>Question</u>
C-21	C1.3.4.12	What, if any, DOD regulation or guidance is the Government using as a standard to determine the maximum number of UXO clearance teams that a UXOSS can safely supervise simultaneously for the UXO clearance activities on Kaho'olawe.
C-22	C1.3.4.16	What, if any, DOD regulation or guidance is the Gov't. using as a standard to determine the maximum number of non-UXO sweep personnel that a UXOS can safely supervise simultaneously for the UXO clearance activities?

Answer:

The Contractor is responsible for determining the appropriate safe span of control, consistent with the contractor's Site Health and Safety Plan and Standard Operating Procedures, both of which are subject to concurrence by the contractor's UXOSO and approval by the contractor's Project Health and Safety Manager.

<u>28. Page</u>	<u>Ref.</u>	<u>Question</u>
C-21	C.1.3.4.13	(1) Will a Master's Degree in archaeology or anthropology and six years of experience in the Pacific meet the requirements? (2) Also will a Master's Degree, three years of experience in the Pacific plus five years supervisory experience meet the minimum requirements for the HPFS?

Answer:

(1) The responsibilities of the HPFD warrant the requirement for ten years experience in Pacific archaeology including five years experience supervising field crews. The requirement for a Bachelor's degree is a minimum requirement which can be exceeded.

(2) The responsibilities of the HPFS warrant the requirement for five years experience in Pacific archaeology. Minimum education and experience requirements may be exceeded.

In addition to the answers above, Section L, Paragraph L17.C.4(b) indicates that offerors may propose an alternate organizational structure with positions and qualifications that differ from those stated in Section C.

29. Page	Ref.	Question
C-24	C.1.3.4.18	There are no responsibilities identified for Historic Preservation Field/Laboratory Technicians (HPT). Is this an oversight?

Answer:

No, this was not an oversight. The HPT is responsible for accomplishing tasks as specified by, and under the direction of, supervisory or higher level historic preservation personnel (i.e. HPM, HPFD, HPFS, or HPLD).

30. Page	Ref.	Question
C-24	C.1.3.4.19	Will other degrees which are equivalent to Master Degrees in Environmental Engineering or Environmental Science, such as Masters of Civil Engineering, Chemical Engineering or Geological Engineering, be acceptable for the Environmental Manager?

Answer:

Yes, if that degree is in the field of or specialized in Environmental Engineering or Science. Section L, Paragraph L17.C.4(b), also allows offerors to propose an alternate organizational structure with changes to positions and minimum qualifications which the Government will consider.

31. Page	Ref.	Question
C-24	C.1.3.4.19	Identifies the requirements for an Environmental Manager which includes two years of experience with ordnance and explosives. The description for the position does not include any EOD functions.

It is recommended that consideration be given to deleting this requirement as it adds little to the qualifications of this position which can be provided by fully qualified EOD positions.

Answer:

Requirements for the Environmental Manager (EM) to have two years of experience with ordnance and explosives (OE) assures full competence in all facets of the position. An example of such OE experience would likely be in environmental compliance and management associated with OE clearances. This does not establish any requirements for the EM to have UXO or military EOD experience. The requirement remains in the best interest of the Government, however, see Section L, Paragraph L17.C.4(b).

<u>32. Page</u>	<u>Ref.</u>	<u>Question</u>
C-25	C.1.3.5.2	Can Section C.1.3.5.2 on Page 25 be deleted or revised?

Answer: No, this section will remain as specified.

<u>33. Page</u>	<u>Ref.</u>	<u>Question</u>
C-26	C.1.4.2.1	Will the Contractor be able to subcontract directly with the organization providing cultural training and cultural monitors (if required)?

Answer:

No. To allow the Contractor to do so may result in a potential organizational conflict of interest.

<u>34. Page</u>	<u>Ref.</u>	<u>Question</u>
C-26	C.1.4.2, C.1.4.2.1 C.1.4.3	For the purpose of the Sample Project, is it possible to make the assumption that all personnel have been previously trained, i.e. during performance of the "Model Project"?

Answer: The offeror shall make reasonable assumptions based upon their understanding of the project; all assumptions shall be documented and justified in the proposal.

35. Page Ref. Question

C-35 C.5.5.3.2 Will there be a requirement for native Hawaiian cultural monitors to accompany sweep teams? If so, what organization will provide them and what contractual arrangement will be implemented to ensure monitors will be available when needed?

Answer:

There is no requirement for the Contractor to provide cultural monitors. As indicated in Attachment JC.2, Regulatory Framework (RFW), Appendix B, Site Protection Agreement, Section V. Site Protection Procedures, Paragraph B, "The Navy will consult with the KIRC, in order to identify properties of traditional religious and cultural importance, and assess any action related to the Cleanup that may affect any such property. The KIRC, in providing recommendations to the Navy, will coordinate with other Native Hawaiian organizations that may attach traditional religious and cultural significance to these properties."

36. Page Ref. Question

C-39 C.6.4.1 Status Reports. The CDL attachment JC-6 does not include "Monthly Status Reports." Shouldn't it?

Answer:

The Contract Deliverable List (CDL) does include "Monthly Status Reports". Refer to Attachment JC.6iii-4, Item No. A3, Column 8, 1a, CMS Progress (Ref. C.6.4) and JC.6 iv-1, Part D, Item No. A3a.

37. Page Ref. Question

C-40 C.6.5.1 The RFP states, "Provide hardware for the purpose of the CMS and data transfer from the Contractor to PACNAVFACENGCOM." Does the Navy require work stations to receive CMS reports? If so, how many?

Answer:

No, the contractor is not required to provide work stations. The Government has existing work stations to receive CMS reports.

38. Page	Ref.	Question
C-41	C.6.6	It would be beneficial if the Navy could provide further information on KIGIS.

Answer:

The Kaho'olawe Island Geographic Information System (KIGIS) User's Manual is available for viewing at the PACNAVFACENGCOM Construction Contracts Branch, Bldg. 62, 4262 Radford Drive, Honolulu, HI. It may also be accessed on the Internet at the following PACDIV Home Page address:

<http://www.navy.mil/homepages/navfac/pacdiv/pacdiv.htm>.

Section C, Part 15.0 Reference Documents (table) has been modified to incorporate the KIGIS User's Manual.

The replacement page is provided in enclosure (6).

39. Page	Ref.	Question
C-41	C.6.6	It is our understanding that the incumbent KIGIS developer is a member of a potential offeror's team. The developer's insight and knowledge of the KIGIS in general, and the cost model (para 6.6.2.4) specifically, potentially permits that team should cost the Sample Project using the same parameters that the Government would employ. We suggest that this capability represents an unfair advantage. Please provide all available GIS plots, e.g.; topography, vegetation, historic properties, and soil characteristics for the Sample Project. We also request details of the cost model's basis of estimate and cost summaries for all Sample Project tasks. In order to permit us time to incorporate results of these data into our proposal, we request receipt of these data by February 7, 1997.

Answer:

It is not reasonable to expect the Contractor to prepare its Sample Project Proposal using the KIGIS; therefore, the Contractor is not required to have access to the data files associated with the KIGIS cost model.

In regards to the specific examples cited above, information regarding the topography, vegetation, historic properties, and soil characteristics are available in various documents contained in Section C, Part 15.0, Reference documents.

40. Page	Ref.	Question
C-41	C.6.6.1 C.6.6.2 C.6.6.3	Will all of the hardware and software described as part of the KIGIS system in Section C, par 6.6.2 and its subparts be provided to the contractor as GFE? Conversely, will the Gov't only provide the existing KIGIS data to the contractor as stated in 6.6.1? Will the contractor be required to provide the hardware, software, and personnel required to operate the existing KIGIS systems indicated in C6.6.3. "System Operations?"

Answer:

The Government will not provide all of the hardware and software described in Section C, Paragraph 6.6.2, to the Contractor as GFE. The Government will provide KIGIS data to the contractor as stated in paragraph 6.6.1. In addition to the KIGIS data, the Government will provide the customized software which was written specifically for the existing KIGIS. The custom software consists of Visual Basic programs and Micro-station Development Language (MDL) programs.

Section C.6.6.1 is revised as follows:

Delete: (last sentence)

Insert: The Government will provide custom KIGIS software and existing KIGIS data to the Contractor as a Modular GIS Environment (MGE) project file."

Paragraph 6.6.2, System Description, is intended to give offerors information on the GIS capabilities that the Government currently possesses. Based on their assessment of the data management needs of the project, offerors may choose to augment and build on the existing KIGIS, or they are free to propose a GIS other than the existing system based on different hardware and software. See Section L, Paragraph L17.C.3(f).

41. Page	Ref.	Question
C-41 C-42	C.6.6	Will maintenance of the KIGIS under Section C, subsection 6.6 be covered by specific task orders or included in Program Management Office functions?

Answer:

Maintenance of the KIGIS will most likely be included in the Program Management Office function.

42. Page	Ref.	Question
C-42	C.6.6.2.4	Is the KIGIS cost model for use by the contractor and the Navy or just the Navy? Reference C-42 Sec 6.6.2.4. What is the software being used by the Navy for the KIGIS cost model?

Answer:

- (1) The KIGIS cost model will be used by both the Contractor and the Navy.
- (2) Visual Basic and Micro-station Development Language (MDL) were used to program the cost model.

43. Page	Ref.	Question
C-42	C.6.6.4	(1) Does "online access" require connection to a master KIGIS or is it acceptable to provide updates to satellite KIGIS systems on a scheduled basis? If so, what would be the schedule (e.g. daily, weekly, monthly) at each location? (2) Please quantify the following: (a) number of workstations needed at each Government location. (b) number of Government personnel requiring training at each location. (3) Can Contractor provide training at a single site for all required personnel?

Answer:

- (1) It is acceptable to provide updates to satellite KIGIS systems on a scheduled basis. KIGIS systems at each location shall be updated at least weekly.
- (2a) At least 1 workstation is required at each Government location.

(2b) Approximately 5 Government and 1 KIRC personnel at each location will require training.

(3) Yes, training can be provided at a single site for all required personnel.

44. Page	Ref.	Question
C-44	C.7.5.2	This paragraph indicated the contractor shall provide final clearance certification. Please clarify.

Answer:

The Contractor shall provide final clearance certification to the Contracting Officer that all work has been performed as required by the contract documents (See Section C, paragraphs 1.2.6.1, 1.2.6.2, CDL A30, and task orders issued).

45. Page	Ref.	Question
C-45	C.7.8	Question concerns attendees at the "Coordination and Mutual Understanding Meeting." (eighth line). "Contractor's personnel required to attend shall include firm principal, project manager..." Paragraph 1.3.a (pg C-9) does not list a 'project manager'. Should it be Program Manager and Senior Project Manager?

Answer:

Yes, Program Manager and Senior Project Manager is correct.

Revise Section C.7.8, as follows:

Delete: (fourth sentence)

Insert: "The Contractor's personnel required to attend shall include firm principal, program manager, senior project manager, project superintendent, QC managers, A-E and subcontractor representatives."

Revise Section C.7.8.1 as follows:

Insert: (first sentence) "Senior" before "Project Manager".

The replacement page is provided in enclosure (6).

46. Page	Ref.	Question
C-45	C.7.8.1	(first line) Refers to a "Program" QC Manager. Para 1.3.a (C-9) and 1.3.3.6 (C-13) call that person "Project QC Manager. Which is correct?

Answer:

Project QC Manager is correct.

Revise Section C.7.8.1 as follows:

Delete: "The Program QC Manager . . . " (first sentence)
"The Program QC Manager . . . " (second sentence)
"The Program QC Manager . . . " (third sentence)

Insert: "The Project QC Manager . . . " (first sentence)
"The Project QC Manager . . . " (second sentence)
"The Project QC Manager . . . " (third sentence)

The replacement page is provided in enclosure (6).

47. Page	Ref.	Question
C-49	C.10.9	Are there any safety and performance criteria specified for helicopters, particularly when flying over water and hazardous terrain?

Answer:

32 CFR 861 regulates air transportation for Department of Defense Commercial Air Carriers. This publication may be obtained from the source specified in Amendment No. 0002.

48. Page	Ref.	Question
C-50	C.10.11	(1) What is the specific use or intention of medical emergency transportation? Please specify if the proposal is for intra-island and/or inter-island use. There are different requirements for each level of services.

(2) Discussions with the Director of the State Department of Hawaii Ambulance Service, have indicated the clean up of the island of Kaho'olawe is viewed as a semi-private endeavor. The island of Kaho'olawe helicopter ambulance service would not be considered under their jurisdiction. First, the movement of patients is not intended for the general public. Second, the contracted emergency helicopter vendor would not receive compensation from the medical insurance companies.

(3) Given the RFP's requirement for prearranged medical services with Maui County's EMS system, we understand this to mean that Maui would be the base for the primary medical facility. This would be in conflict with prudent medical decisions. The better decision is to coordinate with the EMS system that is capable of handling the type and level of injury.

(4) Communication equipment required is assumed to mean the capability to communicate on the State EMS system and Range Control for the island of Kaho'olawe. The radio equipment for these systems is nonstandard to helicopters and will be required as an additional installation.

(5) Is the Navy proposing the establishment of a medical evacuation service solely for the island of Kaho'olawe during the clean up process?

(6) Since the initiation of the RFP, have other alternatives for providing an emergency medical evacuation service fitting the requirements and needs of all concerned been discussed?

Answer:

(1) Evacuate injured or ill personnel from Kaho'olawe when the on-island emergency medical personnel can no longer take care of the problem.

(2) Offerors are responsible for proposing appropriate methods to meet the requirements of the RFP including, but not limited to, the Health and Safety Program, Medical Services requirements, Communications, and Range Control Operational Plans.

(3) Coordination with the Maui County EMS System is required; note Kaho'olawe is part of Maui County. Any proposed changes to the specifications shall be addressed in the alternate technical proposal, see Section L, Paragraph L17.C.1(f).

(4) Offerors are responsible for proposing appropriate methods to meet the requirements of the RFP including, but not limited to, the Health and Safety Program, Medical Services requirements, Communications, and Range Control Operational Plans.

(5) No.

49. Page	Ref.	Question
C-51	C.10.15	(1) Please clarify.
C-53	C.11.2	(2) What type of fire fighting equipment does the Navy intend here? Would it be furnished by the Government? Would a helicopter with a fire bucket be adequate to fulfill the fire fighting requirements?

Answer:

As stated in the RFP, wildfire is the main concern. There is no intention of fighting wildfire; however, it should be mitigated from sweeping through the Base Camp or other vital facilities. The Fire Protection Plan required to be submitted by the Contractor should describe the fire fighting methods and equipment which are to be used.

50. Page	Ref.	Question
C-51	C.10.16	Will the Contractor be required to provide a trained security force? Will those personnel be required to be sworn law officers?

Answer:

Offerors are responsible for proposing the appropriate type of security force and their level of training to meet the requirements of Section C, Subpart 10.16, Security Services.

51. Page	Ref.	Question
E-2	E5	(Referring to Performance Evaluation Meetings) Will the hours and dollars needed to have the proper Contractor personnel attend these meetings be provided for in each Task Order? Will the number and location of meetings for each Task Order be negotiated?

Answer:

Performance evaluation meetings will be negotiated for each affected task order and a baseline of estimated costs will be established.

52. Page	Ref.	Question
G-9	G11.B	"All invoice information, submitted in hard copy, shall also be submitted in electronic format." (1) Is this limited to the Standard Forms 1034 and 1035? (2) Does this include backup and support data? (3) Does format refer to a specific spreadsheet program such as Excel 5.0?

Answer:

- (1) No. Invoiced information includes all cost information billed to the Government utilizing the HTRW WBS format, see Pages G-10 and G-11 for required cost information.
- (2) No. Backup and support data may be submitted in hard copy. This would include supporting data such as individual daily job time cards, travel and per diem receipts, vendor and subcontractor invoices and any other information to support the reasonableness and allowability of the invoiced cost.
- (3) The format of invoice information will be determined after award based on the Contractor's software and the compatibility with the Government's software.

53. Page	Ref.	Question
G-11	G12.C.7	Is it the Government's intention to require Contractor personnel to utilize Government accommodations when conducting travel in conjunction with this contract?

Answer:

Yes. Please refer to Section G, Page G-25, Paragraph G20, Subparagraph C.7, which states in part that "The Contractor shall make every effort to house transient personnel in economical quarters or in Government quarters. To justify staying in commercial hotels, the Contractor shall confirm that no Government quarters are available, obtain certificates of nonavailability (CNAs) and submit the CNA to the Government."

54. Page	Ref.	Question
G-16 - G-20	G14, G15	The following questions pertain to the Memorandum of Agreement set forth in G14: (1) The MOA established both estimating and maximum labor rates for executive, administrative, and professional personnel. Also, the instructions for completing Attachment JL.10, Cost Breakout Forms, state that actual rates of the individuals proposed to work on the sample project shall be used. Which set of rates will be used for evaluation purposes? (2) G14 does not specify whether the proposed percentage ceilings for DBA and SCA labor should include fringe benefits; however, G15 implies that they should not. Which is correct?

Answer:

(1) The actual rates proposed in the Sample Project and Program Management Office (PMO) cost proposals will be evaluated for cost realism and reasonableness. The actual rates proposed shall be based upon the estimating rates and ceilings proposed in the Memorandum of Agreement. Any rates not proposed in the cost proposals but proposed in the MOA will be evaluated for cost realism and reasonableness.

(2) The proposed maximum direct hourly labor rate ceilings for DBA and SCA labor categories shown on G14 are exclusive of fringe benefits.

55. Page	Ref.	Question
G-21	G17	Will the indirect rates entered for the base year in the G17 Memorandum of Agreement constitute the ceilings as well as the estimated rates for the base year?

Answer:

Yes.

56. Page Ref. Question

G-23	G19.D JC.10	Attachment JC.10 does not identify the condition code of the Government-Furnished Property. Will the condition code of Government-Furnished Property be provided, or should the Contractor assume all listed equipment is in perfect working order?
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Answer:

No. The condition code of the Government-Furnished Property will not be provided at this time. The Contractor should assume that the listed equipment is in working condition for solicitation purposes.

57. Page Ref. Question

G-24	G20.A	Has the Government identified any personnel who may have to obtain security clearance? If so, what clearance and positions? Will the Contractor be required to store any classified material? If so, how much, and at what location?
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Answer:

No. The Government has not identified any personnel who may have to obtain a security clearance for travel purposes. The Contractor will not be required to store any classified material. If there ever becomes a need for the Contractor to obtain a security clearance for travel purposes under the contract, the Contractor will be responsible as noted in Section G, Paragraph G20, Subparagraph A.

58. Page Ref. Question

G-24	G20.B	Through no fault of its own, the Contractor could have to replace key (or specific non-key) personnel at some time during the eight-year project. (1) Will the Government consider reimbursement of relocation costs incurred by "specific non-key personnel" during the base year of the contract only? (2) Please explain why relocation costs during subsequent years are excluded. Please consider revising this restriction.
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Answer:

(1) The Government will not reimburse relocation costs for specific non-key personnel throughout the life of the contract.

(2) Relocation costs incurred subsequent to the base year of the contract will not be reimbursed. The qualifications and experience of key personnel identified to work on the project are part of the basis for selection of the Contractor and the Government assumes that these key personnel will perform work for the duration of the contract. The solicitation will not be revised.

<u>59. Page</u>	<u>Ref.</u>	<u>Question</u>
G-26	G21	If these "nonreimbursable" costs are normally included as direct charges by a contractor's approved disclosure statement, will they be reimbursed by the Navy as direct charges?

Answer:

No, the referenced non-reimbursable costs will not be reimbursed by the Navy even if these costs are normally included as direct costs by the contractor's approved disclosure statement.

<u>60. Page</u>	<u>Ref.</u>	<u>Question</u>
I-1	Section I	Section I includes DFARS 252.219-7003, Small, Small Disadvantaged and Women-Owned Small Business Subcontracting Plan (DOD Contracts). Should FAR 52.219-9 be included in this contract?

Answer:

FAR 52.219-9 Small, Small Disadvantaged and Small Women-Owned Business Subcontracting Plan (Alternate II) (March 1996) is included in full text in Section G (vice Section I) as paragraph G13.

61. Page	Ref.	Question
I-6	I 2	Since this solicitation does not require the Contractor to prepare statements of work, specifications and plans for use in competitive procurement, please explain how the Organizational Conflict of Interest clause in I2, included in the solicitation applies to this RFP.

Answer:

Should the nature of the work to be performed on this contract create an actual or potential conflict of interest on a future acquisition not presently identified, restrictions on future activities of the Contractor may be imposed by the Contracting Officer.

62. Page	Ref.	Question
I-16	I 12	(1) The RFP states, "Restrictions on employment of personnel: "The Contractor shall employ...individuals who are residents of the State, and who...possess or would be able to acquire promptly the necessary skills..." This implies that ALL individuals who perform contract services have to be residents of Hawaii. Who will determine whether it is possible for persons to "acquire promptly" the necessary skills? Does "contract services" refer to a limited set of support activities or does it refer to all activities carried out under the contract? (2) Clause I 12 of the solicitation, DFARS 252.222-7000 RESTRICTIONS ON EMPLOYMENT OF PERSONNEL requires that the Contractor, for purposes of performing work in the State of Hawaii employ individuals who are residents of the State. DFARS 222.7000 (b)(2) states this restriction applies "When the unemployment rate in the state is in excess of the national average rate of unemployment as determined by the Secretary of Labor." The Bureau of Labor Statistics indicates as of the end of November 1996 the seasonally adjusted unemployment rate for the state of Hawaii was 6.0%. The rate for all states was 5.3%.

Therefore, must only Hawaiian residents be used to perform this contract? Or does this restriction apply only to wage determined, Service Contract Act and Davis Bacon employees? Can waivers of the residence requirement be granted if residents meeting the Government's minimum personnel requirements as set forth in the solicitation are not available?

Answer:

(1) It is the Contractor's responsibility to determine whether there are qualified applicants in Hawaii or whether it is possible for a given applicant to acquire the necessary skills "promptly"; that decision involves balancing several pertinent factors including, but not limited to, the type and level of skills required for the position, the urgency of the Contractor's need to fill the position, and the applicant's existing level of skills. The term "services" refers to all services (including construction) to be rendered under the contract.

(2) The clause will apply to this contract if, on the date of contract award, the unemployment rate in Hawaii exceeds the national average rate of unemployment as determined by the Secretary of Labor.

The clause does not require that only Hawaii residents be used to perform the contract work. It is not expected that a Contractor will discharge or furlough current employees who are not Hawaii residents in order to hire Hawaii residents for the same positions. The clause applies to decisions made at the time of hiring and establishes a hiring preference for residents of the State of Hawaii who are qualified or can obtain training promptly.

There is no racial or ethnic limitation implied by the term "Hawaii resident". The preference applies to Hawaii residents of any racial or ethnic background.

This clause applies to all positions covered by the Davis-Bacon Act and the Service Contract Act.

Waivers of the preference for Hawaii residents will not be granted by the Contracting Officer. Waiver authority is restricted to higher authority, and a waiver may be granted only in the interest of national security.

The Contractor is ultimately responsible for determining whether residents of the State of Hawaii are available who possess or would be able to acquire promptly the necessary skills to perform the work required by the contract. If no such persons are available, the Contractor may hire an applicant who is not a Hawaii resident.

63. Page Ref. Question

JC.10 JC.10 "Government Furnished Property Inventory - Equipment and Materials." The site visit seemed to reveal significant inconsistencies between GFE on the island, and the GFE listed in Attachment JC.10. How will the Navy evaluate assumptions in the offeror's proposals that are based on information obtained during the site visit which may conflict with the GFE list provided in the proposal? Further, would the Navy provide an amended list of GFE prior to the proposal due date?

Answer:

The offeror's proposals will be evaluated based on the Government-Furnished Property Listing provided in the RFP. Also, see Amendment 0003, Part D, Question No. 8. An amended list of Government-Furnished Property will not be issued prior to the proposal due date.

64. Page Ref. Question

JC.2-4 II.C4 Under Section IIC.4, it is stated that "The allocation of liability has been defined by specific legislation". Please identify this legislation.

Answer:

Title X of the Fiscal Year 1994 DOD Appropriations Act between the Navy and the State of Hawaii.

65. Page Ref. Question

JC.5 JC.5 Pages 1 through 48 of the HTRW WBS appears to contain task- or function-oriented WBS Elements, and pages 49 through 54 appear to contain Labor category can be duplicative.

For example, 331XX.03.04.10 and 331XX.22.11.07 are both labeled "Signs." Can the offeror allocate its costs among the functional WBS elements (pages 1-48) and allocate little to no costs to the other WBS elements (pages 49-54)?

Answer

Signs in 331.03.04.10 relate to signs associated with road construction such as highway signs, stop signs, etc. Project Signs in 331.22.11.07 relate to project identification signs such as "Ford Island Housing".

A Data Dictionary on the Standard Descriptions of the HTRW Remedial Action Work Breakdown Structure is attached at enclosure (8) and is added to define and clarify WBS to the Third Level. Pages 49 through 54 of the HTRW WBS contain General Requirements which are general remediation action requirements and are not specifically identifiable in the other systems such as indirect, overhead, profit, and other general requirements. This system is optional. It may be used to separately show general requirements; however, if it is not used, general requirements must be distributed throughout in the other systems.

Insert the Data Dictionary, enclosure (8), in Section JC.5 after HTRW RA WBS to Fifth Level.

Under Section J, Page J-i, replace Attachment No. JC.5 with the following:

JC.5 HTRW Remedial Action Work Breakdown Structure
(RA WBS), Fifth Level, current version
(WBS unique to this contract) w/Data Dictionary
Standard Descriptions

The replacement page is provided in enclosure (6).

66. Page	Ref.	Question
JC.5-1	JC.5	(1) Is the WBS in Attachment JC.5 a boiler-plate WBS which the Contractor should use as a model in preparing its WBS from the requirements and specifications in Section C? Or, should the Contractor extract those WBS line items which correspond to the requirements/specifications in Section C, and build its WBS structure from the extracted line items?

- (2) Referring to Comment (2), above, [noted below] does the Government agree, and if so, is this WBS just a format guide to be used in the Contractor's development of a WBS using the contents of Section C?
- (2) Many more WBS descriptions should have been marked, "**** - Not Used for Kaho'olawe UXO Clearance Project," as shown on Page 2 of Attachment JC.5

Answer:

The Kaho'olawe WBS is based on a standardized Corps of Engineers HTRW WBS which has been expanded to accommodate Kaho'olawe specific line items. Those items marked *** have been directly replaced with specially numbered site specific line items. Numerous other line items may not be used during the project, but have not been marked ***. The WBS may be expanded at lower levels, but the existing numbering system will remain standardized.

67. Page	Ref.	Question
JC.5-1	JC.5	As a result, what is the relevance of the "UOM" (unit of measure) in the WBS at Attachment JC.5? Is the contractor required to insert UOM rates for each WBS number when submitting the proposal?

Answer:

- (1) UOM is relevant for internal Government reporting purposes.
(2) Yes, the Unit of Measure is required for the sample project proposal.

68. Page	Ref.	Question
JC.5-1 C-9	JC.5 C.1.3	Please clarify the following: (1) The Project Superintendent position was omitted. May the Contractor use WBS 22.01.03 for that position? (2) The position of WBS 22.02.19 should read "Base Camp Manager" to match Section C.1.3.b. (3) The position for WBS 22.02.01 should read "Contract Administration Manager" to match Section C.1.3.b. (4) May the Contractor use WBS 22.04.01 for the Engineer position identified in Section C.1.3.b?

(5) The position for WBS 22.04.34 should read "Historic Preservation Quality Control Manager" to match Section C.1.3.b. (6) Please identify the WBS Line items for each.

Answer:

(1) to (6): WBS 331.22.01.13 to 33 and WBS 331.22.04.30 to 48 was revised to include all personnel as listed in Section C.1.3.

Revise Section J, Attachment JC.5, Page 49 as follows:

Delete: WBS 331.22.01.13 - WBS 331.22.01.19

Insert: WBS 331.22.01.13 - WBS 331.22.01.33

Revise Section J, Attachment JC.5, Page 51 as follows:

Delete: WBS 331.22.04.30 - WBS 331.22.04.38

Insert: WBS 331.22.04.30 - WBS 331.22.04.48

Replace pages 49 to 54 of the HTRW Remedial Action Work Breakdown Structure with pages 49 to 54 (Amendment 0004) provided in enclosure (6).

<u>69. Page</u>	<u>Ref.</u>	<u>Question</u>
JC.5		The HTRW WBS will only contain direct costs and the Cost Breakout Forms will contain fully burdened cost with fee. Therefore, it may be difficult to establish a reconciliation between the two cost formats. Is this the Government's L.17.E.4(a)(3) expectation?
JL.10		
L.17.D.8		
L.17.E.3(a)(2)		

Answer

The HTRW WBS format will provide a summary and detailed cost breakdown of direct costs. The direct costs shown on the HTRW WBS will then be summarized by cost element on the JL.10-3, Summary of Cost Estimate. Indirect rates applicable to these direct costs will be shown on Attachments JL.10-3 and JL.10-7.

<u>70. Page</u>	<u>Ref.</u>	<u>Question</u>
JC.5-1	JC.5	The WBS numbering system is somewhat unclear. Specifically, all WBS numbers begin with "331XX" in Attachment JC.5.

331XX HTRW Remedial Action (construction
33101 Mobilization and Preparatory Work
3310101 Mobilization of construction
equipment and facilities.
3310102 Mobilization of personnel
33102 Monitoring, Sampling, Testing, etc.
3310201 Meteorological Monitoring
3310202 Radiation Monitoring

What takes place of the "XX"? Is it the two-digit code for the next level of WBS? Is the above example correct? Please clarify.

Answer:

The "XX" is the two-digit code for the next level of WBS, specifically, Level 2 (System) which falls under Level 1 (Account 331XX HTRW Remedial Action). The example provided in your question above is correct.

<u>71. Page</u>	<u>Ref.</u>	<u>Question</u>
JL.4	JL.4	Asks the contractor to describe the level of contamination before the project begins and the contamination after project completion. Please clarify this: How will the contractor know the number of UXO before and after?

Answer:

The question is unclear. Attachment JL.4 contains the Company Experience Form.

<u>72. Page</u>	<u>Ref.</u>	<u>Question</u>
JL.2-7	5.d	Will we be allowed to crush boulders on the island to use as a road base? Can some sort of quarry be constructed?

Answer:

For the purpose of the Sample Project (SP) all borrow and aggregate materials shall be imported only. However, the proposer may choose to provide a quarry as part of their alternate technical proposal to accomplish the work specified in the SP as described in Section L, paragraphs L17 and C.1.f.

Outside of the sample project, crushing boulders and developing a quarry are subject to consultation with the KIRC.

73. Page	Ref.	Question
JL.2 L-10	d.1, d.2 L17.B.1	The request for costs associated with deliverables appears to be in conflict with the requirement on page L-10, Section L17.B.1 for all costs to be provided in Volume II of this submittal. Please clarify whether you would like the deliverable costs presented in Volume I, Appendix A, or in Volume II.

Answer:

All costs associated with the Sample Project, Attachment JL.2, shall be presented in Volume II, Cost Proposal. See Paragraph L17, Subparagraph D.6, Part 3, Subpart 1. As noted in Paragraph L17, Subparagraph B.1, ". . . no cost information shall be included therein. If estimated labor hours are included, they shall be stated in labor hour figures only, with no indication as to the cost of these labor hours."

74. Page	Ref.	Question
JL.2	SP-1	(1) The grid coordinates for the water tank and the fenced planted area do not match on the two drawings. Which coordinate system is correct? The grid on SP-1 appears to be shifted north 350 meters and west 285 meters.
JL.2-	SP-1 SP-3	Discrepancy in UTM grids on SP-1 and SP-3, Using the placement of SP-1 sites 104, 400, 401, 402 and 419 are not within 1,500 feet of the water tank as specified in Am 1 page 3, para number B.5. Please Clarify.

Answer:

SP-1 is referenced to the North American Datum of 1983 (NAD83) while SP-3 is referenced to the "Old Hawaiian Datum." A new SP-1 dated 6 Feb. 97 is incorporated by this amendment and is referenced to the NAD83.

Revise Section J, Attachment JL.2, Page JL.2-2, paragraph 3.a.6, third sentence as follows:

Delete: (SP-3)

Insert: (SP-1)

Section J, Attachment JL.2, Page JL.2-ii, replace the date of Enclosure (SP-1) with "06 Feb 97" and delete Enclosure (SP-3) in its entirety.

The replacement page is provided in enclosure (6).

75. Page	Ref.	Question
JL.2-1	JL.2	(1) Paragraph 1.c in the introduction states that the contractor shall provide only those deliverables listed in paragraph 2.e. Should the referenced paragraph be 3.d on page JL.2.d? (2) "The Contractor shall provide only Deliverables listed in Paragraph 2e." There is no Paragraph 2e. Paragraph 3.d (page JL.2-4) appears to describe deliverables. Please clarify.

Answer:

The referenced paragraph is 3.d on page JL.2-5 as revised in Amendment 0001, dated 9 January 1997.

76. Page	Ref.	Question
JL.2-1	JL.2	Has the NAVFAC Design Manual 5.5 been superseded by Army TM 5-822-1/AFM88-7, Chp 5?

Answer: No.

77. Page	Ref.	Question
JL.2-2 JL.2-7	JL.2(3.b.2 and 5.c.3)	Will the Navy provide assumptions about the number of archaeological sites that will be impacted by the Sample Project for costing purposes?

Answer:

The revised Sample Project under Amendment No. 0001 redefines the historic properties which are to be addressed in the Sample Project.

A revised map is provided in enclosure (6). The number of historic properties to be protected can be easily calculated based on the information provided.

78. Page	Ref.	Question
JL.2-2	3.a.3)	Are we to delineate for ourselves the quantities of each type of ordnance of BIP items?

Answer:

The Contractor may delineate the quantities of each type of UXO listed for BIP. Each type listed must be represented.

79. Page	Ref.	Question
JL.2-3	3.a.c.	How are we to arrive at the locations within areas or subareas where specific ordnance items can be found? There are no indications as to these locations.

Answer:

Refer to Paragraph 3.a.4 on page JL.2-2 which states that "An even distribution of UXO and remnants are within the Sub area(s) listed in tables 1 and 2." No additional location information is necessary within the sub area.

80. Page	Ref.	Question
JL.2-4	Section J JL.2.3.d.1	"The Contractor shall provide a brief description and an estimated cost of each UXO related Deliverable as listed in Table 3." What are the minimum data items for each Deliverable? Please supply a Data Item Description for each Deliverable.

Answer:

The minimum data items for each deliverable are as noted in Attachment JC.6, Page JC.6iii. Data Item Descriptions may be obtained from DODSSP Standardization Documents Order Desk as stated in Attachment JC.6, Page JC.6i-3.

81. Page Ref. Question

JL.2-6 4.a.1) Request that "related facilities" be listed in their entirety.

Answer:

Assume no additional physical improvements required at the Base Camp to accommodate the listed personnel. However, Contractor shall determine their own logistics list of day to day operations and maintenance required.

82. Page Ref. Question

JL.2-8 5.d.1)(b) Please clarify if there is a paragraph 4a.

Answer:

Paragraph 4a should be 5a.

Section J, Attachment JL.2, Page JL.2-8, Paragraph 5d.1.b.

Delete: ". . . as indicated in paragraph 4a."

Insert: ". . . as indicated in paragraph 5a."

The replacement page is provided in enclosure (6).

83. Page Ref. Question

JL.2-8 5.d.2) Are there any restrictions on imported aggregate material, and if so, what references are there on this subject?

Answer:

Revise Attachment JL.2, Page JL.2-ii to include the following Sample Project Reference:

Insert: (g) PACNAVFACENGCOM P-74 A-E Guide for Architect-Engineer Firms
Performing Services for the DON PACNAVFACENGCOM, November 1996

Replace and revise Attachment JL.2, Part 5, Paragraph d, Subparagraph 2, as follows:

Insert: "Large quantities of borrow and base course will be required to fill and grade the road as necessary. Therefore, borrow and base course materials shall be imported from a commercial quarry to preclude environmental testing. The furnished material shall be compacted to its minimum required density."

The replacement page is provided in enclosure (6).

84. Page	Ref.	Question
JL.3-2	JL.3	"Summary, Corporate Experience (Part II); Two columns are labeled "Project Cost" (with sub-heading, "Scheduled" and "Actual") and "Company Cost" (with sub-heading, "Negotiated" and "Actual"). (1) What is the difference between "Project Cost" and "Company Cost"? (2) What is the difference between "Scheduled" and "Negotiated"?

Answer:

(1) Project Cost = Total cost of the contract; Company Cost = Portion of the total cost awarded to your firm. For example, your firm may have been a subcontractor and therefore, was only awarded a portion of the total cost of the contract.

(2) There is no difference.

85. Page	Ref.	Question
JL.5-1	JL.5	Summary, Key Personnel Experience contains two columns headed "Yrs, Mos Exper. w/this Firm" Two columns are headed "Yrs, Mos Exper. w/this firm." Refer also to Section L, paragraph 4(c)(1), page L-22. Should one of these be headed "Yrs, Mos Exper. w/other Firms?"

Answer:

Yes. The change is incorporated into the RFP by this amendment.

Section J, Attachment JL.5, Page JL.5-1, fourth column.

Delete: Yrs, Mos Exper w/this Firm

Insert: Yrs, Mos Exper w/other Firms

The replacement page is provided in enclosure (6).

86. Page	Ref.	Question
JL.7-1	JL.7	"The Government will allow for annual escalation...not to exceed the Consumer Price Index (CPI).." Please confirm which of the following applies: (1) National Consumer Price Index (2) Hawaiian Consumer Price Index.

Answer:

As noted in Section G, Page G-16, Paragraph G14.A.1, "The Government will allow for annual escalation of the hourly labor wage rates in an amount not to exceed the Consumer Price Index (CPI) published by the Department of Labor, using rates for the local region if available."

87. Page	Ref.	Question
JL.7-1 L-31	JL.7 - JL.10, Section L	Mandatory Forms and Cost Breakdown Forms. It is clear that cost breakdown forms from Section JL.10 are to be used to cost the Sample Project Program Management Office for the Base Year. It is not clear whether the forms in Attachment JL.7, JL.8, JL.9 are to be used for costing the requirements of Section C of the RFP, or are they also to be used for costing the Sample Project and PMO for the base year?

Answer:

The forms at attachments JL.7, JL.8 and JL.9 should be used to estimate the rates associated with the work described in Section C for the contract, not the Sample Project or PMO cost proposal. The Sample Project and PMO cost proposals shall include Attachment JL.10.

The direct rates and maximum award fee percentages to be proposed on Attachment JL.10 should not exceed the maximum hourly rates and the award fee percentages proposed on Attachment JL.7. The indirect rates should be extracted from Attachment JL.8.

88. Page	Ref.	Question
JL.7-3 JL.10	JL.7 JL.10	There appears to be a conflict between Attachment JL.7, MOA for maximum award fee, and Attachment JL.10, Cost Breakout Forms, in that Attachment JL.7 distinguishes fee on subcontracts on the basis of subcontract type, while Attachment JL.10 bases the distinction on whether the subcontract is 1st tier or 2nd tier. The former does not allow for the fact that a team subcontract may be firm fixed price or a non-team subcontract may be cost reimbursement. Please clarify.

Answer:

Maximum award fee percentages shall be proposed on the following basis:

- ___ % Prime Contractor Award Fee*
- ___ % Cost-Reimbursable Subcontracts*
- ___ % Fixed-Price Subcontracts

Award fee will not be estimated on travel costs, Contractor-acquired property, including rentals, and Facilities Capital Cost of Money (FCCM).

Incorporate the following changes in Section J, Attachment JL.10, Pages JL.10-3 and JL.10-7:

Delete: (13) ___ % Prime Contractor Award Fee***
 ___ % (on 1st tier or team subcontractor ***
 ___ % (on 2nd tier or team subcontractor

Insert: (13) ___ %Prime Contractor Award Fee***
 ___ % Cost-Reimbursable Subcontracts***
 ___ % Fixed-Price Subcontracts

Replacement pages are provided in enclosure (6).

Under Section G, Page G-19, Paragraph G14, Subparagraph C.1, delete "Team" under "Cost Reimbursable Team Subcontracts".

Section G is replaced in its entirety and is provided in enclosure (2).

89. Page	Ref.	Question
JL.10	JL.10	In the event that an offeror's accounting system structure differs from that shown in Attachment JL.10, can revisions to the form be made to accommodate the differences, as long as the general format is maintained? For example, more than one overhead or G&A rate may apply, and they may not be applied in the manner implied by the prescribed format. Also, if a contract type other than cost reimbursement is proposed for team subcontracts, the form as written will be difficult to use and read.

Answer:

(1) Yes, revisions to the form can be made to conform to the contractor's accounting system provided that the general format is maintained. In accordance with Cost Accounting Standards 401, the consistency requirement between estimating and accumulating costs is a two-part requirement. First, the contractor's practices used to estimate costs in pricing proposals must be consistent with practices used in accumulating actual costs. Second, the contractor's practices used in accumulating costs must be consistent with practices used to estimate costs in pricing the related proposal.

(2) If a contract type other than cost reimbursement is used as a team contractors, the summary of Cost Estimate Form may be altered provided that the applicable general information requested is maintained and any additional information which may not be listed is included.

90. Page	Ref.	Question
L-2	L-4	Under the best value definition is it possible that a higher cost offeror could be awarded the contract?

Answer: Yes.

91. Page	Ref.	Question
L-2 C-29	L4(b),(d) C3.2	Does the solicitation require the resumes of more than one UXO escort? Further if the offeror proposes new positions in its alternate organization, how would the Navy evaluate the resume of "alternate organization" Non-key personnel? If the offeror's experience deems the need for more than one individual to fill any non-key personnel function in the performance of the work, how would the Navy evaluate additional resumes in the proposal of non-key personnel who would be committed to this contract?

Answer:

It is the Contractor's responsibility to determine the appropriate number of personnel required for each position and to develop an organizational structure which meets the requirements described in Section C. In accordance with Section 1.3.1 the Government will review the resumes of non-key personnel to determine qualifications relative to the requirements of the contract. If multiple personnel are applied to a function, resumes on a one for one basis will be reviewed.

92. Page	Ref.	Question
L-9	5.	Can type size for graphics, tables, and other exhibits be smaller than the 12 point specified for text? If so, is 10 point an acceptable size?

Answer: No.

93. Page	Ref.	Question
L-9	L17.A.4	The RFP states, "...Proposal clarity, organization in accordance with this solicitation, and cross referencing are mandatory..." There is no provision in the proposal format at Section L17.B.6 for a cross reference matrix. Should a cross reference matrix be included in Part 1?

Answer:

No. Cross referencing within the text of the Contractor's proposal is mandatory for easier readability.

94. Page Ref. Question

L-9 L17.A.5 The RFP states, "Text shall be spaced no less than 1 space (single space), not to exceed **55 lines** per page." Does this line limit include headers and footers such as company logo and title of proposal in the header and/or page numbers as a footer?

Answer:

No.

95. Page Ref. Question

L-9 L17.A.5.a The RFP states, "A page is defined as one face of a sheet of paper containing information including title pages, text, labels, figures, **indexes**, and attachments. Does this statement pertain to Tabs/dividers between sections that contain only the title of that section and no other information? Are these Tabs page-counted?"

Answer:

No. The term "index" as used in the RFP is defined as an alphabetized listing of subjects that indicates the page on which each item is mentioned.

96. Page Ref. Question

L-25 L.17D.5(a) Paragraph L.17D.5(a) appears to ask the offeror to complete
L-30 L.17.E.3 Section B for the Base and all option years, while the
 L.17.E.4 remainder of Section L.17 specifies the cost proposal requirements for the Program Management Office, Base Year, and the Sample Project. Is our assumption correct that the Government only desires a cost proposal for the Program Management Office, Base Year, and the Sample Project?

Answer Yes.

97.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-10	L17-B	Reference paragraph L17-B (page L-10) "...the budget estimate for the base year and first option year is approximately \$20,000,000 to \$25,000,000." Are the stated dollars annual amounts, or representative of the combined contract periods? Are the amounts inclusive of both PMO and Technical Services? How do these values relate to those identified in Schedule B for the same periods?

Answer:

The budget estimate for the base year and first option year of \$20,000,000 to \$25,000,000 is revised in accordance with Section B. See Question No. 1, above. Based on this change, the budget estimate for the base year for both PMO and Technical Services is \$30,000,000 and \$40,000,000 for the first option year.

98.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-10	L17-B.3	RFP states, "In the event that use of subcontractor(s) in a "team" approach is proposed, wherein the subcontractor(s) will accomplish significant portions of a clearly identifiable scope of work on a consistent basis, or on a consistent overflow basis, a "team" relationship will be considered." If a prime contractor subcontracts out to a vendor to provide waste removal, for instance, as part of the camp operations, and this effort will be performed only by that vendor on a continual basis, is this considered a "team" subcontract?

Answer:

The Contractor shall make this determination based on Section L, Page L-10, Paragraph L17, Subparagraphs B.3 and C.7(h), and Federal Acquisition Regulation (FAR) 9.6.

99.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-12	Appendix C	Page L-12, Part 3, the list of appendices, a requirement for the offeror to complete Hazardous Waste Disposal Experience Forms (JL.3-3 and JL.3-4) is identified.
	L-15	Subpart 2	
	L-16		

97.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-10	L17-B	Reference paragraph L17-B (page L-10) "...the budget estimate for the base year and first option year is approximately \$20,000,000 to \$25,000,000." Are the stated dollars annual amounts, or representative of the combined contract periods? Are the amounts inclusive of both PMO and Technical Services? How do these values relate to those identified in Schedule B for the same periods?

Answer:

The budget estimate for the base year and first option year of \$20,000,000 to \$25,000,000 is revised in accordance with Section B. See Question No. 1, above. Based on this change, the budget estimate for the base year for both PMO and Technical Services is \$30,000,000 and \$40,000,000 for the first option year.

98.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-10	L17-B.3	RFP states, "In the event that use of subcontractor(s) in a "team" approach is proposed, wherein the subcontractor(s) will accomplish significant portions of a clearly identifiable scope of work on a consistent basis, or on a consistent overflow basis, a "team" relationship will be considered." If a prime contractor subcontracts out to a vendor to provide waste removal, for instance, as part of the camp operations, and this effort will be performed only by that vendor on a continual basis, is this considered a "team" subcontract?

Answer:

The Contractor shall make this determination based on Section L, Page L-10, Paragraph L17, Subparagraphs B.3 and C.7(h), and Federal Acquisition Regulation (FAR) 9.6.

99.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-12	Appendix C	Page L-12, Part 3, the list of appendices, a requirement for the offeror to complete Hazardous Waste Disposal Experience Forms (JL.3-3 and JL.3-4) is identified.
	L-15	Subpart 2	
	L-16		

However, there is no request for these forms anywhere in Subpart 2, and they are not included in Attachment J. These forms, as well as their reference in Subpart 2, are missing in the RFP.

Answer:

The oversight was corrected in Amendment No. 0002 issued on January 24, 1997.

100. Page Ref. Question

L-15	C2(a)(1)	Is it the intent of the RFP reference to address only UXO firms experience and safety record, or is it intended to address UXO experience and safety records of UXO firms plus address safety record of all firms both UXO and Non-UXO? If the response requires inclusion of UXO firms experience plus all team member's safety record, will the Navy consider establishing a non-page counted attachment/matrix for submission of safety record data to include narrative of list time accident/incidents?
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Answer:

The RFP is revised to reflect the Government's desire to have all UXO and non-UXO firms address their experience and safety records on UXO projects. The RFP is also revised to reflect the Government's intent to have all non-UXO firms address their safety records on non-UXO projects. No increase in the proposal page count will be allowed.

Amend RFP Section M, Subsection M5, Part E, subpart 2, paragraph (b) on page M-4 to read:

"(b) Adherence to UXO safety requirements/regulations, and overall safety record. Include the experience and safety records of all UXO and non-UXO firms on UXO projects. Include the experience and safety records of all non-UXO firms on non-UXO projects."

Section M is replaced in its entirety and is provided in enclosure (5).

101.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-16	SP2(a)	Sections L & M do not correspond with respect to the Corporate Experience/Past Performance factor. How will subparts (a)(6), (a)(7), (a)(8), and (a) (12) on page L-16 be evaluated, as these areas of the proposal do not appear to be addressed in the Subpart 2 criteria in Section M on page M-4?
	M-4	3.a to 3.b	

Answer:

The following revisions to Section M, Subsection M5, Part E, subpart 2, on pages M-4 and M-5 have been incorporated by this amendment:

Amend paragraph (a), subparagraph (5) to read:

"(5) UXO treatment/handling/disposal. Work within federal, state, and local regulations pertaining to UXO clearance. Included is thermal treatment/thermal desorption/low temperature thermal stripping of UXO residue from UXO and non-UXO items."

Amend paragraph (d) to read:

"(d) Work within federal, state, and local regulations pertaining to environmental cleanup. Preparation of hazardous waste disposal plans, hazardous waste manifests and other necessary documents to transport and dispose hazardous waste off-site, as well as transporting and disposing hazardous waste off-site, including sampling and testing, remediation of hazardous waste, hazardous material and other contaminated materials."

Amend paragraph (g) to read:

"(g) Providing specialized engineering and technical competence in preparing plans, and specifications. Also competence in geographic information systems, data management (to include collecting, managing, operating, and reporting field data [UXO and non-UXO]), land surveying, and compliance with environmental, medical, and historic preservation requirements."

Section M is replaced in its entirety and is provided in enclosure (5).

102. Page Ref. Question

L-18 L17.C.3.b The RFP states, "Your PMO proposal shall
M-5 be for the base year only...", versus "PMO
proposal...rationale for proposed organization structure
(Include differences between base year and option years)..."
Please clarify the conflict between these two sections. If the
PMO proposal is for the base year only (Section L), how can
the proposal incorporate option years in the primary PMO
proposal as indicated by Section M, and how can the Navy
evaluate alternatives?

Answer:

Section L, Paragraph L17.C, Subpart 3(b)(2) is revised as follows:

Insert: (at the end of the paragraph) "Discuss any differences in the proposed
organizational structure for the base year which may occur in the option
years. No costs should be proposed for the option years."

Section L is replaced in its entirety and is provided in enclosure (4).

103. Page Ref. Question

L-19 L17C.3.(c) Sentence states that the optional alternate PMO proposal
(last may address the base year and subsequent years of the
sentence) contract. This is inconsistent with paragraph L17D.6. Part 4
Subpart 2 (p L-27) which states the alternate PMO is base
year only. Which is correct?

Answer:

Section L, Page L-27, Paragraph L17.D.6 Part 4, Subpart 2 is correct. However,
discussion of any differences in the proposed organizational structure for the option
years is required.

Incorporate the following change:

Under Section L, Paragraph L17, Subparagraph C.3(c),

Delete: (last sentence) "Your alternate proposal may address the base year and subsequent years of the contract."

Insert: "Your alternate proposal shall be for the base year only. Discuss any differences in the proposed organizational structure for the base year which may occur in the option years. No costs should be proposed for the option years."

Section L is replaced in its entirety and is provided in enclosure (4).

104.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-20	L17.C.3.e	Does the 17-page limit for Appendix F apply for each plan submitted separately, or does the page limit apply in the aggregate?

Answer:

The 17-page limit applies for each plan submitted separately.

105.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-21	L17.C.3.e.1	(1) Does this two-page submittal count as part of the 17-page limit specified in Section L17.B.6 (page L-13)? (2) The instructions on page L-21 for the Subcontracting Plan state that two pages are to be attached to the end of the plan addressing outreach efforts and preference for Hawaiian firms; however, page L-11, paragraph B.5.(c), states that no additional sheets are to be attached and page L-13 specifies a limit of 17 pages for the plan, which is the length of the provided format. Please clarify.

Answer:

- (1) No.
(2) The two pages discussing how the offeror intends to provide a preference for small and small disadvantaged businesses located in the State of Hawaii in the award of subcontracts are not included in the 17-page limit. A maximum of two pages will be provided as an attachment to the 17-page Subcontracting Plan(s).

Incorporate the following change:

Under Section L, Page L-11, Paragraph L17, Subparagraph B.5(c):

Delete the following sentence:

"No additional sheets may be attached."

Under Section L, Page L-13, Paragraph L17, Subparagraph B.6, Part 3:

Replace Appendix F in its entirety with the following:

"Appendix F: Subcontracting Plan(s)"
17 page limit with maximum 2 page attachment
(See Paragraph C., Subpart 3, (e)(1), below.)

Under Section L, Page L-21, Paragraph L17, Subparagraph C.3(e)(1):

Incorporate the following changes:

"Add "(s)" to the words "Subcontracting Plan" in the first sentence."

"Replace the last sentence with "Attach this information (maximum of two pages) at the end of the 17-page Subcontracting Plan(s)."

Section L is replaced in its entirety and is provided in enclosure (4).

106. Page Ref. Question

L-21	(g), (h)	The accounting system and purchasing system information are requested to be included in the technical proposal. Do you intend to evaluate this information separately from the cost proposal?
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Answer:

No. The information on Page L-21, Subparagraphs (g) and (h) pertaining to the accounting system and purchasing system, being submitted under the Technical Proposal, shall be moved to page L-37, paragraphs 10 and 12,, under Cost Proposal submittals where the Contractor is already being asked to provide information on its accounting, billing, estimating and purchasing system.

Incorporate the following changes:

Under Section L, Paragraph L17, delete Subparagraph C.3(g).

Under Section L, Subparagraph F.10, add the following:

"(a) Describe the cost accounting system and practices of your company. Identify the basis for sharing indirect and direct costs to specific projects."

Under Section L, Paragraph L17, delete Subparagraph C.3(h).

Under Section L, Subparagraph F.12, add the following:

"(a) If your purchasing system is not approved, describe your plan to obtain approval within six months following award of the contract. Describe the system by which subcontractors, vendors, and consultants are presently procured. Specify procedures for procurement of equipment, materials, supplies, and services."

Section L is replaced in its entirety and is provided in enclosure (4).

107.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-22	L17.C.4.(b)	(1) This section states "the minimum qualifications for each function, or their equivalent must be met". What is the acceptable definition of "or their equivalent"? (2) Sec 1.3.3.4 lists a minimum requirement for HSM as a "Certified Safety Professional (CSP) by the Board of Certified Safety Professionals. Would an acceptable equivalent requirement be Certification as an Industrial Hygienist? (3) Sec 1.3.4.1 list a minimum requirement for the AE as "three years professional experience in Hawaii." Would an equivalent requirement be three years or more of directly related professional experience on similar UXO clearance projects within the United States?

Answer:

(1) This statement was deleted from the RFP due to a previous change in this amendment.

Section L is replaced in its entirety and is provided in enclosure (4).

(2) Certification as an Industrial Hygienist is not an acceptable equivalent to a Certified Safety Professional (CSP).

(3) For A-Es, three years or more of directly related professional experience on similar UXO clearance projects within the United States is not an acceptable equivalent requirement for three years professional experience in Hawaii.

108.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-23 C-10	Section L 1.3.1	Section C, subsection 1.3.1 (page C-10) and Section L, page L-23 require resumes for both Key and Non-Key Personnel. For changes, resumes for Key Personnel are subject to the approval of the Contracting Officer. However, Section C also states that resumes for Non-Key Personnel will be reviewed by the Government. Does this imply that Non-Key Personnel substitution will be required to follow the same approval process as for Key Personnel substitution? Also, will the qualifications in the resumes submitted for Non-Key Personnel replace the minimums specified in Section C at the time of award?

Answer:

(1) No. Resumes for Non-Key Personnel will be reviewed by the Government to assure the qualifications are adequate relative to the requirements of the contract.

(2) No.

109.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-29	D.8(c)	1) Does the Government intend for contractors to include all proposed travel, transportation, and per diem costs associated with the Sample Project under the referenced WBS? 2) Should PMO travel, transportation, and per diem dollars be listed under this WBS, even though a category exists under the RFP-provided HTRW (RA WBS)? 3) Should proposed travel costs associated with employee relocation be listed under WBS 331.22.11.17?

Answer:

- 1) No.
- 2) No.
- 3) Yes, or other appropriate WBS number. Under Section L, Page L-29, Paragraph L17, Subparagraph D.8(c), replace the first sentence with the following:

"(c) Note that travel requirements should be included under the appropriate WBS task numbers for Travel and Per Diem."

110. Page Ref. Question

L-29 D.8.(c) Indicate travel and per diem should be included under task number 331.22.11.17 but there are other WBS tasks for travel and per diem as well, such as 331.22.01.12 and 331.22.02.21. Should these "other" tasks not be used?

Answer:

No. Use other WBS tasks for travel and per diem as appropriate. No, see answer to question above.

111. Page Ref. Question

L-30 E.3(a) To what WBS level(s) are detailed breakdown of costs required to be prepared?

Answer:

Prepare detailed cost breakdown to WBS Fifth Level for UXO Clearance only. For the remaining Sample Project, prepare detailed cost breakdown to WBS Fourth Level.

112. Page Ref. Question

L-30 E.4(a) This contradicts Paragraph 8(a). Which is the correct requirement?

Answer:

Prepare a detailed cost breakdown to the Fourth Level of the WBS for the PMO, Base Year.

113. Page Ref. Question

L-32 L17-E.7(a) RFP states, "...The rates proposed on the forms at Attachments JL.7 through JL.9 should be the same if used for the Sample Project cost proposal and the PMO Cost proposal."

Are bidders required to propose the same indirect burden rates for the PMO and Sample Project?

Answer:

Yes. Both proposals will apply the indirect rates proposed on Attachment JL.8, "Memorandum of Agreement, Indirect Rates and Ceilings."

114. Page Ref. Question

L-34 F.3 Paragraph F.3. requests information indicating "which levels of employees will normally charge their time in overhead or G&A, and which will normally charge time as a direct cost." Please explain the meaning of the word "levels" as used on page L-34 in F.3.

Answer:

"Levels" of employees are the contractor's labor category titles anticipated to be used on this contract.

Incorporate the following change:

Under Section L, Page L-33, Paragraph F.3, replace the first sentence with the following:

"Provide a staffing plan consistent with your technical proposal indicating which labor categories will normally charge their time under indirect costs; which indirect cost burden their time is allocated to; and which labor categories will normally charge time as a direct cost."

Section L is replaced in its entirety and is provided in enclosure (4).

115.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-34	F.1.b.	Clause F.1.b. on page L-34 requires current company wide average rates for each labor category. This is interpreted as the company wide average rates for the proposer's normally used nomenclature (or nomenclatures) proposed for the labor categories specified in the RFP. Is this correct?

Answer:

Yes. However, if the Government-provided labor categories do not exactly match the titles normally used in a particular company operation, the contractor should provide the additional information as described in L17.F.2.

116.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-35	4	The Section L instructions for Volume II of the proposal mention the possibility of unique indirect rates established for this contract. How would the realism of the proposed rates be evaluated, given the lack of directly relevant actual experienced costs?
	L-36	6	

Answer:

Cost realism pertains to the proposer's ability to project costs which can be reasonably expected to be incurred in the performance of a resulting contract consistent with its technical proposal. The contractor will be requested to identify the basis of its proposed rate(s), i.e. a company average rate or specifically developed for this contract, with supporting rationale. The contractor may choose to propose unique indirect rates pertaining to this contract award based on the an understanding of the solicitation.

117.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	L-36	F.8	How is the Hawaii General Excise Tax, described on page L-36, F.8, applied to a subcontractor subject to the tax? Specifically, is the tax applicable to the Prime's revenue, including subcontractor cost, and then again to the subcontractor's revenue? In other words, is subcontractor revenue subject to the tax at both the subcontractor level (when the Prime pays the subcontractor) and then again at the Prime level (when the Prime Contractor is paid)?

Answer:

The Contractor is expected to do its own research of the General Excise Tax laws to determine the base for computing the prime contractor's tax liability and whether any exemptions and/or exclusions apply under this contract.

118. Page Ref. Question

M-3	M5E.1	The RFP States, "Technical Understanding. The following subfactors are listed in descending order of importance." Understand that subfactors (a)...(e) are in descending order, but...What is the relative importance between subfactors (a) and (e); is subfactor (a) twice as important than subfactor (e); more than twice; less than twice?
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Answer:

The difference between the importance assigned to any one subfactor and that assigned to the subfactor either immediately preceding or immediately following it is small. The subfactors are not specifically assigned weights however, there is no one subfactor that has predominant consideration over other subfactors.

119. Page Ref. Question

M-3	M5E.1	The RFP States, "Technical Understanding. The following subfactors are listed in descending order of importance: (a)...(e) Sample Project, Alternate Approach." Section M gives weight to an Alternate Approach to the Sample Project, but Section L17.B.5.c (page L-11) indicates that Appendix B (Alternate Approach to Sample Project) to Volume 1, Technical Proposal may be left blank if no alternate is proposed. Will the Contractor be penalized in the proposal scoring system if no Alternate Approach to the Sample Project is proposed? Please clarify.
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Answer:

Section L has been modified to stipulate that all offerors shall submit an alternate proposal for the Sample Project and an alternate approach towards the establishment of a Program Management Office (PMO).

In preparing the proposals required by the RFP, offerors are instructed to propose in accordance with the type of work that is characteristic of the contract as described in Section C, Description/Specs/Work Statement. However, it is highly probable that during the life of the contract, changes will occur in various aspects of the work to be performed, and inasmuch as the current work statement reflects only existing conditions, having the offerors provide alternate proposals which demonstrate foresight, innovative ideas and methods, and cost control is crucial in selecting a Contractor who is able to work in an environment marked by continuous change. The changes are incorporated into the RFP as follows:

Section L, Page L-11, Paragraph L17.B.5(b).

Delete: "...The proposal and optional alternate proposal for the Sample Project shall be attached as Appendix A and Appendix B, respectively. The proposal and optional alternate proposal for the Program Management Office shall be attached as Appendix D and Appendix E, respectively."

Insert: "...The proposal and alternate proposal for the Sample Project shall be attached as Appendix A and Appendix B, respectively. The proposal and alternate proposal for the Program Management Office shall be attached as Appendix D and Appendix E, respectively."

Section L, Page L-11, Paragraph L.17.B.5(c).

Delete: "...Appendix B (optional alternate proposal for the Sample Project) shall also be limited to 25 pages. Appendices B and E will remain blank if alternate approaches are not proposed. Appendix D (proposed approach toward the establishment of a Program Management Office and organization) shall be limited to 15 pages. Appendix E (optional alternate approach toward the establishment of a Program Management Office) shall also be limited to 15 pages."

Insert: "...Appendix B (alternate proposal for the Sample Project) shall also be limited to 25 pages. Appendix D (proposed approach toward the establishment of a Program Management Office and organization) shall be limited to 15 pages. Appendix E (alternate approach toward the establishment of a Program Management Office) shall also be limited to 15 pages."

Section L, Page L-12, Paragraph L17.B.6, Part 3, Appendix B.

Delete: in its entirety.

Insert: "Offeror's alternate proposed technical approach to the Sample Project, 25 page limit (See Paragraph C., Subpart 1, (f), below.)"

Section L, Page L-12, Paragraph L17.B.6, Part 3, Appendix E.

Delete: in its entirety.

Insert: "Offeror's alternate proposed approach to establishment of a Program Management Office and organization, 15 page limit (See Paragraph C., Subpart 3, (c), below.)"

Section L, Page L-15, Paragraph L17.C.1(f).

Delete: "If you choose to provide an alternate technical proposal to accomplish the work specified in the Sample Project, attach your proposal as Appendix B, in Volume I, Part 3."

Insert: "Provide an alternate technical proposal to accomplish the work specified in the Sample Project, attach your proposal as Appendix B, in Volume I, Part 3."

Section L, Page L-19, Paragraph L17.C.3(c).

Delete: "If you choose to provide an alternate proposal which describes your overall approach to the establishment of a Program Management Office (PMO) and organization, attach your alternate proposal as Appendix E, in Volume I, Part 3."

Insert: "Provide an alternate proposal which describes your overall approach to the establishment of a Program Management Office (PMO) and organization, attach your alternate proposal as Appendix E, in Volume I, Part 3."

Section L, Page L-25, Paragraph L17.D.5(a).

Delete: in its entirety.

Insert: "Volume II, Part 1 shall contain a Cover Page, Standard Form 1448 Proposal Cover Sheet, Table of Contents, List of Tables, and List of Figures. Part 2 shall contain the completed forms at Sections A, B, and K of the RFP. Part 3, Subpart 1 shall contain the cost proposal for the Sample Project. Part 3, Subpart 2 shall also contain the cost benefit analysis for the proposed alternative to the Sample Project. Part 4, Subpart 1 shall contain the cost proposal for the Program Management Office (PMO) for the base year."

Part 4, Subpart 2 shall contain the cost benefit analysis for the proposed alternative to the establishment of the PMO. Part 5 shall contain a range of costs associated with the Geographic Information System and Part 6 shall contain Appendices A through G."

Section L, Page L-26, Paragraph L17.D.6, Part 3, Subpart 2.

Delete: in its entirety.

Insert: Alternate Approach, Sample Project

Section L, Page L-25, Paragraph L17.D.6, Part 4, Subpart 2.

Delete: in its entirety.

Insert: Alternate Approach, Program Management Office (PMO), Base Year

Section L, Page L-30, Paragraph L17.E.3(b).

Delete: "...Provide a cost benefit analysis outlining the effect of your recommended changes only if an alternate approach is proposed in Paragraph C., Subpart 1, (f) of Volume I above."

Insert: "...Provide a cost benefit analysis for the proposed alternate approach to the Sample Project outlining the effect of your recommended changes."

Section L, Page L-31, Paragraph L17.E.4(b).

Delete: "...Provide a cost benefit analysis outlining the effect of your recommended changes only if an alternate approach is proposed in Paragraph C., Subpart 3, (c), of Volume I above."

Insert: "...Provide a cost benefit analysis for the proposed alternate approach to the PMO outlining the effect of your recommended changes."

Section L is replaced in its entirety and is provided in enclosure (4).

120. Page Ref. Question

M-5 M5E.3 The RFP states, "The following subfactors (a) and (b) are equal in importance; subfactors (c) through (l) are in descending order...each one of subfactors (a), (b), and (c) are of significantly greater importance than subfactors (d) through (l). Section M gives considerable weight to an Alternate PMO proposal (subfactor c), but Section L17.B.5.c (page L-11) indicates that Appendix E (Alternate PMO proposal) to Volume 1, Technical Approach may be left blank if no alternate is proposed. Will the Contractor be penalized in the proposal scoring system if no Alternate Approach for the PMO is proposed? Please clarify.

Answer:

See answer above.

121. Page Ref. Question

N/A M Does the Navy plan to hold interviews as part of its selection process?

Answer:

No.

122. Page Ref. Question

M-6 E.3(e)
(2nd line) It refers to the Subcontracting Plan as Attachment JL.10. Shouldn't it be JC.9?

Answer:

Yes. Incorporate the following changes:

Under Section M, Paragraph M5, Subparagraph E.3(e), replace "Attachment JL.10" with "Attachment JC.9".

Section M is replaced in its entirety and is provided in enclosure (5).

123.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	M-6	E.3(f)	There is no requirement in Section L to provide any information of this kind. What is the intent of this evaluation factor?

Answer:

Section L is revised to include the requirement to address prior performance in complying with Small Business Concerns, Small Disadvantaged Business, and Women-Owned Small Business Concerns requirements.

Incorporate the following changes:

Under Section L, C.3.(e), insert the following:

"(2) Provide information on prior performance in complying with requirements of FAR 52.219-8 Utilization of Small, Small Disadvantaged Business, and Women-Owned Small Business Concerns, and 52.219-9 Small, Small Disadvantaged, and Women-Owned Small Business Subcontracting Plan; and the extent of participation of such firms in terms of the value of the total acquisition."

Section L is replaced in its entirety and is provided in enclosure (4).

124.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	M-6 L-21	M5.E.3(g)	(1) Subfactor (g) on page M-6 only addresses the proposed alternate KIGIS. Will the plan to use the existing KIGIS requested in paragraph (f) on page L-21 be evaluated as well? (2) Does omission of an alternate KIGIS constitute a penalty if scoring the Contractor's proposal? It appears this is the case, as M5.E.3.g establishes an alternate KIGIS as an evaluation factor, but does not mention a primary KIGIS proposal. In fact, Section M makes no other mention of KIGIS. Please clarify.

Answer:

Sections L and M have been modified to instruct offerors to propose a Geographic Information System (GIS).

If the Contractor proposes to use the existing KIGIS, the Contractor's implementation plan for the existing KIGIS will be evaluated. If the Contractor proposes to use a GIS, other than the Government-provided KIGIS, the Contractor's development and implementation plan for the proposed GIS will be evaluated.

Sections L and M have been changed as follows:

Section L, Page L-21, Paragraph L17, Subparagraph C.3(f).

Delete: in its entirety.

Insert: "Describe in sufficient detail how you plan to use a Geographic Information System (GIS) to manage all graphical and non-graphical data associated with the UXO Clearance Project. Demonstrate your ability to manage the GIS on a daily basis using your company resources. Indicate how you plan to improve the technology of the GIS as new data becomes available. The Government will provide existing KIGIS data to the Contractor as a Modular GIS Environment (MGE) project file (See Section C.6.6 of the RFP). (Note: Do not include a detailed cost estimate for your proposed GIS; however, if you propose to use a GIS other than the Government-provided KIGIS, in Volume II, Part 5, provide a range of costs for any developmental work.)"

Section L, Page L-27, Paragraph L17, Subparagraph D.6, Part 5.

Delete: in its entirety.

Insert: Geographic Information System (GIS): Range of Costs

Section L, Page L-31, Paragraph L17, Subparagraph E.5, Part 5.

Delete: in its entirety.

Insert: **Geographic Information System (GIS):** Provide a range of costs for any developmental work if you propose to use a GIS other than the Government-provided KIGIS. The range shall be representative of the effort proposed in Paragraph C, Subpart 3, (f), of Volume I above.

Section M, paragraph M5.E.3.g.

Delete: in its entirety.

Insert: "Feasibility of the Contractor's plans for the proposed GIS, level of daily management effort and data coverage, level of complexity of usage, plans to improve GIS technology, and derived benefits to the Government."

Sections L and M have been replaced in their entirety and provided in enclosures (4) and (5), respectively.

125.	<u>Page</u>	<u>Ref.</u>	<u>Question</u>
	M-6	M5E.4	The following subfactors are listed in descending order of importance." Understand that subfactors (a) through (c) are in descending order, but...What is the relative importance between the most important subfactor and the least important subfactor within Section M5E.4. - Is it twice; more than twice; less than twice?

Answer:

The difference between the importance assigned to any one subfactor and that assigned to the subfactor either immediately preceding or immediately following it is small. The subfactors are not specifically assigned weights however, there is no one subfactor that has predominant consideration over other subfactors.

SECTION F
(REPLACED IN ITS ENTIRETY)

Enclosure (1) of
Amendment No. 0004

SECTION F
DELIVERIES OR PERFORMANCE

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SECTION F
DELIVERIES OR PERFORMANCE

F1 FAR 52.242-15 STOP-WORK ORDER (AUG 1989) ALTERNATE I (APR 1984)

(a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work order is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either:

(1) Cancel the stop-work order; or

(2) *Terminate the work covered by the order as provided in the Termination clause of this contract.*

(b) *If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule, the estimated cost, the fee, or a combination thereof, and in any other terms of the contract that may be affected, and the contract shall be modified in writing, accordingly, if:*

(1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and

(2) The Contractor asserts its rights to the adjustment within 30 days after the end of the period of work stoppage; provided that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.

(c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow for reasonable costs resulting from the stop-work order in arriving at the termination settlement.

(d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

F2 PLACE OF PERFORMANCE

The place of performance shall be designated on each individual task order issued.

F3 TERM OF CONTRACT

A. The base contract term shall be for a period of 12 months commencing on the date of contract award. The Government has the option to extend the term of the contract in accordance with FAR 52.217-9, "OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 1989)" in Section I.

B. The base contract term will be for a period of twelve (12) months commencing on the date of contract award with seven (7) one-year options which the Government may exercise annually.

F4 EXTENSION OF SERVICES

The Government may require continued performance of any services within the limits and at the rates specified in the contract in accordance with FAR 52.217-8, "OPTION TO EXTEND SERVICES (AUG 1989)" in Section I.

F5 DELIVERY OF DATA (TASK ORDERS)

Data shall be delivered in accordance with the schedules and destinations specified in the Contract Deliverable List (CDL) at Section J, as required by the basic contract and/or individual Task Orders (TOs) issued hereunder.

F6 WORK SCHEDULE

A. The Contractor shall arrange work to minimize interferences with the normal occurrence of Government business. All work schedules will be subject to negotiations during the task order award process.

B. Service Interruptions. If any utility services must be disconnected (even temporarily) due to scheduled contract work, the Contractor shall notify the COTR and affected tenants at least 15 working days in advance.

F7 FAC 5252.242-9305 PRE-PERFORMANCE CONFERENCE (JUL 1995)

At a mutually agreeable time following contract award, prior to commencement of the work, the Contractor will meet in conference with representatives of the Contracting Officer, at a time to be determined by the Contracting Officer, to discuss and develop a mutual understanding relative to scheduling and administering work.

SECTION G
(REPLACED IN ITS ENTIRETY)

Enclosure (2) of
Amendment 0004

**SECTION G
CONTRACT ADMINISTRATION DATA**

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SECTION G
CONTRACT ADMINISTRATION DATA

G1 FAC 5252.201-9300 CONTRACTING OFFICER AUTHORITY (JUN 1994)

In no event shall any understanding or agreement between the Contractor and any Government employee other than the Contracting Officer on any contract, modification, change order, letter or verbal direction to the Contractor be effective or binding upon the Government. All such actions must be formalized by a proper contractual document executed by an appointed Contracting Officer. The Contractor is hereby put on notice that in the event a Government employee other than the Contracting Officer directs a change in the work to be performed or increases the scope of the work to be performed, it is the Contractor's responsibility to make inquiry of the Contracting Officer before making the deviation. Payments will not be made without being authorized by an appointed Contracting Officer with the legal authority to bind the Government.

The Contracting Officer for this contract is:

Mr. James D. Putnam (Code 021)
Pacific Division
Naval Facilities Engineering Command
Pearl Harbor, Hawaii 96860-7300

G2 CONTRACT ADMINISTRATION DATA

A. The Contract will be administered by:

Mr. James D. Putnam (Code 021)
Pacific Division
Naval Facilities Engineering Command
Pearl Harbor, Hawaii 96860-7300

B. Invoice Submittal Information: See paragraphs G11 and G12.

C. Payment will be made by:

DFAS-OPLOC Honolulu/FPVN (Navy Vendor Pay)
Bldg. 77, Box 1392, Ford Island
Pearl Harbor, HI 96860-7554

G3 TASK ORDERS FOR COST REIMBURSEMENT CONTRACTS

A. Work under this contract shall be ordered by written task orders issued to the Contractor by the Contracting Officer on DD Form 1155, Order for Supplies or Services, referenced in Section C, Part 14.1.

B. The Government shall not be obligated to reimburse the Contractor for work performed, items delivered, or any costs incurred, nor shall the Contractor be obligated to perform, deliver, or otherwise, incur costs except as authorized by duly executed task orders.

G4 ORDERING PROCEDURES

A. Each task order shall be placed in accordance with the following procedures:

1. Request for Proposal. The Contracting Officer shall furnish the Contractor with a written request for a proposal and a detailed cost estimate. The request shall include:

(a) A description of the required work and identification of the type of work to be performed (services and/or construction).

(b) The place of performance of work.

(c) The desired completion date.

(d) The place and manner of inspection and acceptance.

(e) List of specific deliverables as specified in the Contract Deliverable List (CDL), Section C, paragraph 8.0.

(f) The due date for submission of the cost proposal.

(g) Any other pertinent information (such as applicable Davis-Bacon Act and/or Service Contract Act wage determinations).

2. Contractor Proposal and Cost Estimate. The Contractor shall, within the time specified, provide the Contracting Officer with:

(a) A proposal and detailed cost estimate (in accordance with the HTRW WBS format to the fourth level and UXO effort to the fifth level), proposing direct and indirect costs associated with the work specified. A breakdown of costs will be in sufficient detail to allow for an analysis of costs to be performed by the Government. Any amounts claimed for subcontractors shall be supported by a similar breakdown.

(b) The place of performance of work.

(c) Proposed schedule for completion of the task order.

(d) List of applicable CDLs.

(e) The dollar amount and type of proposed subcontract(s), including information required by and in accordance with FAR 52.244-2, Subcontracts (Cost Reimbursement and Letter Contracts) (Alternate I), as referenced Section I 1.

(f) List of Government Furnished Property to be used under the task order.

(g) Estimated travel costs.

(h) List of Key Contractor Personnel (position, name, and telephone number) working on the task order.

(i) The maximum award fee calculated in accordance with the rates listed in paragraph G16.

(j) The total estimated cost plus award fee.

B. Upon receipt of the Contractor's proposal and detailed cost estimate, the Contracting Officer (or designated representative) and Technical Representatives, as needed, shall compare it with their own independently prepared cost estimate, enter into any fact-finding or negotiation with the Contractor needed to correct and/or revise the proposal and detailed cost estimate, make any needed changes to the Task Order Statement of Work (SOW), and effect the necessary internal review processes.

C. Upon completion of this process, the Contracting Officer shall prepare and issue a task order on a DD Form 1155, as referenced in Section C, Part 14.1. Only upon receipt of such an executed order, signed by the Contracting Officer, shall the Contractor commence work.

D. Task Order Requirements. Each task order shall include as a minimum:

1. The date of the order.
2. Contract and task order number.
3. Statement of Work, including references to applicable specifications.
4. Place of Performance.
5. The place and manner of inspection and acceptance.
6. ***The period of performance and a schedule of work for completion of the task order.***
7. Pre-award information, or other information necessary to the performance of the task order.
8. Accounting and appropriation data.
9. The negotiated estimated cost of performance and maximum award fee.
10. The application of Limitation of Cost or Limitation of Funds.
11. Any Government-furnished property to be utilized in the performance of the order.
12. Applicable Davis-Bacon Act and/or Service Contract Act wage determination.
13. Subcontracting applications.
14. Award Fee provisions and applications.
15. List of deliverables in accordance with the CDL list.
16. Name, position, and telephone number of Government/Contractor Key Personnel identified with specific task order responsibility.
17. Invoicing instructions.
18. Any other information deemed necessary to the performance of the task order.

E. The Contractor shall notify the Contracting Officer if any apparent difficulties with regard to performance according to the terms of the order are anticipated or any time difficulties in performance arise. If, at any time during performance of an order, it appears that additional funds will be required to complete performance of the task order, the Contractor shall promptly notify the Contracting Officer in writing. Such notification shall include the costs expended, an estimate of costs required to complete the order, and an explanation of why the originally negotiated estimated cost was not adequate. In response, the Government may require the Contractor to (1) continue performance up to the originally estimated cost level and to suspend work thereafter; (2) negotiate a new set of work priorities to be completed within the remaining funds; (3) modify the order, increasing the estimated cost to the level appropriate for completion of the work without additional fee; or (4) use any other method available under this contract to meet its requirements. Fee may be increased only if there is an increase to the original scope of the order described in the SOW and evidenced by the cost estimate negotiated.

G5 NOTIFICATION REQUIRED UNDER LIMITATION OF COST AND LIMITATION OF FUNDS CLAUSES

A. LIMITATION OF COST, FAR 52.232-20, and LIMITATION OF FUNDS, FAR 52.232-22, incorporated by reference in Section I 1, are applicable to each task order individually. Limitation of Cost will apply if the task order is fully funded at the time of issuance. Limitation of Funds will apply if the task order is incrementally funded. "Task Order" is substituted for "Schedule" wherever that word appears in the clauses. The Contractor shall notify the Contracting Officer in writing whenever it has reason to believe:

1. For LIMITATION OF COST:

(a) The costs the Contractor expects to incur under the task order in the next 60 days when added to all costs previously incurred, will exceed 75 percent of the estimated cost specified in the task order;

(b) The total cost for the performance of the task order, exclusive of any fee, will be either greater or substantially less than had been previously estimated.

2. For LIMITATION OF FUNDS:

(a) The costs the Contractor expects to incur under the task order in the next 60 days, when added to all costs previously incurred, will exceed 75 percent of the total amount so far allotted to the task order;

(b) 60 days before the end of the period specified in the task order, the Contractor shall notify the Contracting Officer in writing of the estimated amount of additional funds, if any, required to continue timely performance under the task order.

NOTE: Notification requirement aspects of LIMITATION OF COST and LIMITATION OF FUNDS are restated here for emphasis. Other aspects of these clauses, incorporated by reference in Section I 1 herein, which are not restated above remain in full force and effect as if provided in full text.

G6 DELEGATION OF AUTHORITY TO ADMINISTRATIVE CONTRACTING OFFICER (ACO)

ACO Delegation functions shall be designated as necessary in each task order.

G7 FAC 5252.242-9300 GOVERNMENT REPRESENTATIVES (JUN 1994)

(a) The contract will be administered by an authorized representative of the Contracting Officer. In no event, however, will any understanding or agreement, modification, change order, or other matter deviating from the terms of the contract between the Contractor and any person other than the Contracting Officer be effective or binding upon the Government, unless formalized by proper contractual documents executed by the Contracting Officer prior to completion of this contract. The authorized representative is indicated hereinafter:

X 1. The project Engineer-in-Charge (EIC) (Contracting Officer's Technical Representative; see paragraph G8 below) will be designated by the Contracting Officer as the authorized representative of the Contracting Officer. The EIC is responsible for monitoring performance and the technical management of the effort required hereunder, and should be contacted regarding questions or problems of a technical nature.

X 2. The designated Contract Specialist will be the Administrative Contracting Officer's representative on all other contract administrative matters. The Contract Specialist should be contacted regarding all matters pertaining to the contract or task orders.

X 3. The designated Property Administrator is the Administrative Contracting Officer's representative on property matters. The Property Administrator should be contacted regarding all matters pertaining to property administration.

G8 CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR) AND NAVY TECHNICAL REPRESENTATIVE (NTR)

- A. The Contracting Officer's Technical Representative (COTR) for this contract is:

Mr. Clyde Higa
Pacific Division
Naval Facilities Engineering Command
Pearl Harbor, HI 96860-7300

- B. The Alternate COTR for this contract is:

Mr. Ronald Boyd
Pacific Division
Naval Facilities Engineering Command
Pearl Harbor, HI 96860-7300

C. The Navy Technical Representatives (NTRs) will be identified on each task order. The NTRs will provide on-site monitoring of contract requirements and performance, and may perform all duties assigned to the COTR.

G9 TECHNICAL DIRECTION

A. As provided by paragraph G8, "CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)", performance of work under this contract is subject to the written technical direction of the COTR, who is specifically appointed by the Contracting Officer. "Technical Direction" means a directive to the Contractor that approves approaches, solutions, designs, or refinements; fills in details or otherwise completes the general description of the work or documentation items; or furnishes similar instructions to the Contractor. Technical direction includes requiring studies and pursuit of certain lines of inquiry regarding matters within the general tasks and requirements in the Statement of Work of the task order.

B. The COTR/NTR does not have the authority to, and shall not, issue any instruction purporting to be technical direction which:

1. Constitutes an assignment of additional work outside the Statement of Work;
2. Constitutes a change as defined in the Changes Clause, see Section H, paragraph H5, Notice of Constructive Changes;
3. In any manner causes an increase or decrease in the total estimated cost, award fee, or the time required for task order performance;
4. Changes any of the expressed terms, conditions, or specifications of the task order;
5. Interferes with the Contractor's rights to perform the terms and conditions of the order, or;
6. Authorizes the Contractor to incur costs in excess of the estimated cost or other limitations on costs or funds set forth in this contract.

C. All technical direction shall be issued in writing by the COTR or the COTR's designated representative subject to the above stated conditions.

D. The COTR/NTR is authorized to temporarily suspend or redirect the UXO clearance activities if there is potential harm to historic properties or communities of endemic or indigenous plants, or where any on-site activity appears to violate the Environmental Protection Plan requirements contained in the Contractor's Final Work Plan, or poses a potential for a measurable increase in soil erosion.

E. When, in the opinion of the Contractor, the COTR/NTR or any other Government official other than the Contracting Officer, provides direction which has an effect to the estimated cost, scope, or schedule, the Contractor shall promptly notify the Contracting Officer in writing. No action shall be taken by the Contractor under such direction until the Contracting Officer has issued a decision or has otherwise resolved the issue.

G10 CONTRACT AUDIT OFFICE

Contract audits will be performed by:

To be completed at time of award

G11 SUBMISSION OF INVOICES

A. "Invoice" as used in this paragraph includes Contractor requests for interim payments using public vouchers (Standard Forms 1034 and 1035) as well as requests for payment upon completion of service.

B. All invoice information, submitted in hard copy, shall also be submitted in electronic format. The required format shall be determined after award.

C. The Contractor shall submit the original invoice and any requested supporting documentation to the contract auditor at the following address:

To be completed at time of award

D. Following verification, the contract auditor will forward the original invoice to the Contracting Officer who will determine the amount due, and indicate approval of provisional payment, subject to audit, in accordance with the applicable payment and fee clauses of this contract.

E. Copies of the invoice and any necessary supporting documentation shall be forwarded to the Contracting Officer at the address specified in paragraph G2, "Contract Administration Data," above. The supporting documentation required for all task orders, and for use in random sampling, will be determined by the Contracting Officer.

F. Invoices, which have been accumulated and summarized for all task orders, shall be submitted no more than once a month. There shall be a lapse of no more than 90 calendar days between performance and submission of an invoice for interim payment. Although the Contracting Officer will accept the invoicing of charges older than 90 days, verification becomes more difficult and may cause the charges to be disallowed. Invoiced costs shall be submitted in accordance with the WBS format.

G12 REQUIREMENTS FOR INVOICE APPROVAL

A. Each invoice shall contain the following information, as applicable:

1. Contract Line Item Number (CLIN)
2. Subline Item Number (SLIN)
3. Accounting Classification Reference Number (ACRN)
4. Payment Terms
5. Date supplies provided or services performed
6. Costs incurred and allowable under the contract

B. Costs of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLINs/SLINs with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

C. Incurred costs invoiced shall be in accordance with FAR Part 31, FAR 52.216-7, ALLOWABLE COST AND PAYMENT, and the Joint Travel Regulations (JTR). The following information is required:

1. Contract number, invoice number, date of invoice submission, and period of services billed;
2. Summary level information for the entire invoice, including a total of all current and cumulative costs to date (labor, ODC's, team subcontractor costs, other subcontractor costs, travel and relocation costs, indirect costs, and award fee), broken down by task order;
3. Task Order Number and project title. Note: All invoiced costs shall be substantiated by evidence of actual payment prior to billing;
4. Current and cumulative labor costs for each task order, listing the name of employees, number of regular and premium direct labor hours, and labor category, segregated by appropriate WBS in accordance with the HTRW Code of Accounts. Labor charges must be able to be substantiated by individual daily job time cards or a record of time worked showing individuals used, hours worked and amounts charged;
5. Current and cumulative costs for other direct charges (ODCs) for each task order, segregated by appropriate WBS code; evidence of payment shall include all cash and trade discounts, rebates, allowances, credits, salvage, commissions and other benefits. Sufficient information must be included to indicate the nature and requirement for the purchase.

6. Current and cumulative subcontractor costs for each task order, including an information copy of each subcontractor's invoice, with documentation as determined necessary. For current subcontract costs, sufficient information must be included to indicate the nature and reason for the subcontract effort. For cost reimbursement subcontracts, list the amount of fee separate from the cost of performance.

7. Current and cumulative travel and per diem costs for each task order, if any. All travel/relocation information shall be in accordance with requirements established in the JTR. Current travel costs are to be supported with receipts and the following data for each trip:

- (a) Dates of travel, time of day travel began and ended
- (b) Mode of transportation and cost
- (c) Point of origin
- (d) Destination and person contacted
- (e) Name of traveler
- (f) Purpose of travel and travel authorization forms
- (g) Per diem rates
- (h) Evidence of BOQ non-availability

8. Separately identified indirect costs for each task order (identifying rate used and base); and

9. Current and cumulative award fee available and paid for each task order.

D. The Contractor will be required to resolve all questions concerning questioned or disallowed costs with the Contracting Officer. Upon resolution of the disputed costs, and as directed by the Contracting Officer, the Contractor may submit a separate invoice reflecting resolution of the disputed costs, or may include such costs as an adjustment to the next invoice.

E. The final invoice under each task order, identified as final, will be treated exactly as prescribed above and will list all invoices previously tendered under the contract. Final payment will be predicated upon the execution of an acceptance document which provides the COTR's certification. The Contractor shall prepare a final release of claims to be signed by an authorized individual of the company. The last invoice for work performed under this contract will be so designated in order that a final close-out audit may occur.

G13 FAR 52.219-9 SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED
SMALL BUSINESS SUBCONTRACTING PLAN (ALTERNATE II) (MAR 1996)

(a) This clause does not apply to small business concerns.

(b) 'Commercial product,' as used in this clause, means a product in regular production that is sold in substantial quantities to the general public and/or industry at established catalog or market prices. It also means a product which, in the opinion of the Contracting Officer, differs only insignificantly from the Contractor's commercial product.

'Subcontract,' as used in this clause, means any agreement (other than one involving an employer-employee relationship) entered into by a Federal Government prime Contractor or subcontractor calling for supplies or services required for performance of the contract or subcontract.

(c) Proposals submitted in response to this solicitation shall include a subcontracting plan, which separately addresses subcontracting with small business concerns, small disadvantaged business concerns and women-owned small business concerns. If the offeror is submitting an individual contract plan, the plan must separately address subcontracting with small business concerns, small disadvantaged business concerns and women-owned small business concerns with a separate part for the basic contract and separate parts for each option (if any). The plan shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate a subcontracting plan shall make the offeror ineligible for award of a contract.

(d) The offeror's subcontracting plan shall include the following:

(1) Goals, expressed in terms of percentages of total planned subcontracting dollars, for the use of small business concerns, small disadvantaged business concerns, and women-owned small business concerns as subcontractors. The offeror shall include all subcontracts that contribute to contract performance, and may include a proportionate share of products and services that are normally allocated as indirect costs.

(2) A statement of--

(i) Total dollars planned to be subcontracted;

(ii) Total dollars planned to be subcontracted to small business concerns;

(iii) Total dollars planned to be subcontracted to small disadvantaged business concerns; and

(iv) Total dollars planned to be subcontracted to women-owned small business concerns.

(3) A description of the principal types of supplies and services to be subcontracted, and an identification of the types planned for subcontracting to (i) small business concerns (ii) small disadvantaged business concerns, and (iii) women-owned small business concerns.

(4) A description of the method used to develop the subcontracting goals in paragraph (d)(1) of this clause.

(5) A description of the method used to identify potential sources for solicitation purposes (e.g., existing company source lists, the Procurement Automated Source System (PASS) of the Small Business Administration, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, small disadvantaged and women-owned small business concerns trade associations). A firm may rely on the information contained in PASS as an accurate representation of a concern's size and ownership characteristics for purposes of maintaining a small business source list. A firm may rely on PASS as its small business source list. Use of the PASS as its source list does not relieve a firm of its responsibilities (i.e., outreach, assistance, counseling, publicizing subcontracting opportunities) in this clause.

(6) A statement as to whether or not the offeror included indirect costs in establishing subcontracting goals, and a description of the method used to determine the proportionate share of indirect costs to be incurred with (i) small business concerns (ii) small disadvantaged business concerns, and (iii) women-owned small business concerns.

(7) The name of the individual employed by the offeror who will administer the offeror's subcontracting program, and a description of the duties of the individual.

(8) A description of the efforts the offeror will make to assure that small, small disadvantaged and women-owned small business concerns have an equitable opportunity to compete for subcontracts.

(9) Assurances that the offeror will include the clause in this contract entitled 'Utilization of Small, Small Disadvantaged and Women-Owned Business Concerns' in all subcontracts that offer further subcontracting opportunities, and that the offeror will require all subcontractors (except small business concerns) who receive subcontracts in excess of \$500,000 (\$1,000,000 for construction of any public facility), to adopt a plan similar to the plan agreed to by the offeror.

(10) Assurances that the offeror will (i) cooperate in any studies or surveys as may be required, (ii) submit periodic reports in order to allow the Government to determine the extent of compliance by the offeror with the subcontracting plan, (iii) submit Standard Form (SF) 294, Subcontracting Report for Individual Contracts, and/or SF 295, Summary Subcontract Report, in accordance with the instructions on the forms, and (iv) ensure that its subcontractors agree to submit Standard Forms 294 and 295.

(11) A recitation of the types of records the offeror will maintain to demonstrate procedures that have been adopted to comply with requirements and goals in the plan, including establishing source lists; and a description of its efforts to locate small, small disadvantaged and women-owned small business concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):

(i) Source lists, (e.g., PASS guides) and other data that identify small, small disadvantaged and women-owned small business concerns.

(ii) Organizations contacted in an attempt to locate sources that are small, small disadvantaged or women-owned small business concerns.

(iii) Records on each subcontract solicitation resulting in an award of more than \$100,000, indicating (A) whether small business concerns were solicited and if not, why not, (B) whether small disadvantaged business concerns were solicited and if not, why not, and (C) whether women-owned small business concerns were solicited and if not, why not, and (D) if applicable, the reason award was not made to a small business concern.

(iv) Records of any outreach efforts to contact (A) trade associations, (B) business development organizations, and (C) conferences and trade fairs to locate small, small disadvantaged and women-owned small business sources.

(v) Records of internal guidance and encouragement provided to buyers through (A) workshops, seminars, training, etc., and (B) monitoring performance to evaluate compliance with the program's requirements.

(vi) On a contract-by-contract basis, records to support award data submitted by the offeror to the Government, including the name, address, and business size of each subcontractor. Contractors having company or division-wide annual plans need not comply with this requirement.

(e) In order to effectively implement this plan to the extent consistent with efficient contract performance, the Contractor shall perform the following functions:

(1) Assist small, small disadvantaged and women-owned small business concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. Where the Contractor's lists of potential small, small disadvantaged and women-owned small business subcontractors are excessively long, reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.

(2) Provide adequate and timely consideration of the potentialities of small, small disadvantaged and women-owned small business concerns in all 'make-or-buy' decisions.

(3) Counsel and discuss subcontracting opportunities with representatives of small, small disadvantaged and women-owned small business firms.

(4) Provide notice to subcontractors concerning penalties and remedies for misrepresentations of business status as small, small disadvantaged or women-owned small business for the purpose of obtaining a subcontract that is to be included as part or all of a goal contained in the Contractor's subcontracting plan.

(f) A master subcontracting plan on a plant or division-wide basis which contains all the elements required by paragraph (d) of this clause, except goals, may be incorporated by reference as a part of the subcontracting plan required of the offeror by this clause; provided, (1) the master plan has been approved, (2) the offeror ensures that the master plan is updated as necessary and provides copies of the approved master plan, including evidence of its approval to the Contracting Officer, and (3) goals and any deviations from the master plan deemed necessary by the Contracting Officer to satisfy the requirements of this contract are set forth in the individual subcontracting plan.

(g)(1) If a commercial product is offered, the subcontracting plan required by this clause may relate to the offeror's production generally, for both commercial and noncommercial products, rather than solely to the Government contract. In these cases, the offeror shall, with the concurrence of the Contracting Officer, submit one company-wide or division-wide annual plan.

(2) The annual plan shall be reviewed for approval by the agency awarding the offeror its first prime contract requiring a subcontracting plan during the fiscal year, or by an agency satisfactory to the Contracting Officer.

(3) The approved plan shall remain in effect during the offeror's fiscal year for all of the offeror's commercial products.

(h) Prior compliance of the offeror with other such subcontracting plans under previous contracts will be considered by the Contracting Officer in determining the responsibility of the offeror for award of the contract.

(i) The failure of the Contractor or subcontractor to comply in good faith with (1) the clause of this contract entitled 'Utilization of Small, Small Disadvantaged and Women-Owned Small Business Concerns,' or (2) an approved plan required by this clause, shall be a material breach of the contract.

G14 MEMORANDUM OF AGREEMENT FOR DIRECT LABOR RATES AND
MAXIMUM AWARD FEE

A. The Memorandum of Agreement as shown below will be completed at time of award and will incorporate the rates, as proposed on the form in Section J, Attachment JL.7. The form provides the estimating hourly labor rates and maximum hourly rates for employees defined under 29 CFR Ch. V, Sections 541.1, Executive, 541.2, Administrative, and 541.3, Professional.

1. Estimating Hourly Labor Wage Rates. The estimating hourly labor wage rates shown below are for the base year of the contract. The hourly labor wage rates take into account the ratios for uncompensated overtime identified under Section J, Attachment JL.9. The Government will allow for annual escalation of the hourly labor wage rates in an amount not to exceed the Consumer Price Index (CPI) published by the Department of Labor, using rates for the local region if available. The escalated rates are applicable to each option year of the contract.

2. Maximum Hourly Labor Wage Rates. The maximum hourly rates are established at no more than 15% above the proposed estimating hourly labor wage rates. The Contractor may use any employees (other than key personnel) whose salaries do not exceed the ceiling rate for the particular function. (Key personnel substitutions will be in accordance with Section C, paragraph 1.3.5 of this solicitation.) If the Contractor wants to use an employee whose labor rate exceeds the ceiling, prior to performance of work by that employee, the Contractor must justify the cost-effectiveness of utilizing the employee and obtain approval from the Contracting Officer. Actual labor rates experienced during performance of the contract will be charged not to exceed the established maximum hourly rates.

<u>LABOR CATEGORY</u>	<u>ESTIMATING HOURLY RATE</u>	<u>MAXIMUM HOURLY RATE</u>
Program Manager	_____	_____
Senior Project Manager	_____	_____
Contract Administration Manager	_____	_____
Project QC Manager	_____	_____
Project Health and Safety Manager	_____	_____
Range Control/Operations Officer	_____	_____
Historic Preservation Manager	_____	_____
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[illegible]

G-18

1. Davis Bacon Act and Service Contract Act Direct Labor Rate Ceilings.

The percentages shown below over the minimum rates set forth in the applicable wage determinations provide a ceiling for employees subject to the Davis Bacon and Service Contract Acts. This ceiling also applies to any classifications that will be conformed. This percentage rate will apply throughout the life of the contract.

The maximum direct hourly labor rate ceiling for Service Contract Act labor categories are established at the applicable wage determination rates plus ____%.

The maximum direct hourly labor rate ceiling for Davis-Bacon Act labor categories are established at the applicable wage determination rates plus ____%.

C. The Memorandum of Agreement as shown below will be completed at time of award and will incorporate the maximum award fee percentages as proposed on the form in Section J, Attachment JL.7.

1. Maximum Award Fee. The following Maximum Award Fee percentages will be used to calculate the Maximum Award Fee Pool on each task order. The Maximum Award Fee percentages are applicable throughout the life of the contract.

*Prime Contractor Award Fee	_____ %
*Cost Reimbursable Subcontracts	_____ %
Fixed Price Subcontracts	_____ %

*Award fee will not be estimated on travel costs, Contractor-acquired property including rentals, and Facilities Capital Cost of Money (FCCM).

D. The rates, ceilings, escalation factors and maximum award fee percentages will apply throughout the life of the contract.

G15 SERVICE CONTRACT ACT AND DAVIS BACON ACT LABOR RATE CEILINGS

A. The applicable Service Contract Act and/or Davis Bacon Act Wage Determinations will be issued with the Requests for Proposal and will be incorporated into individual task orders under this contract. The Government will pay only the Service Contract Act or Davis Bacon Act wage rates, applicable fringes, plus the percentages established in paragraph G14.

B. Any labor categories used during contract performance which are covered under the Service Contract Act or Davis Bacon Act, and which are not listed in the applicable wage determination shall be subject to conformance procedures by the Contractor.

G16 AWARD FEE CALCULATION AND PAYMENT

A. Each task order will contain a maximum award fee using the percentages established in paragraph G14, and will be calculated by adding the following products:

1. Multiply the total cost (less travel, Contractor-acquired property including rentals, Facilities Capital Cost of Money and subcontracts) by %.**
2. Multiply the value of any cost reimbursable subcontracts (less travel, Contractor-acquired property including rentals, Facilities Capital Cost of Money and maximum award fee) by %.
3. Multiply the total value of any fixed price subcontracts by %.

*To be added in at contract award.

**Of the percentage of maximum award fee, an award fee amount of 1% or 2% will be deducted to form a separate Overall Management pool.

B. The award fee will not be adjusted for cost overruns or when an order has been completed at less than the total estimated cost. Adjustments to the award fee may be made for modifications which cause an increase or decrease to the "scope" of the task order as shown by a change to the SOW.

C. At the end of each award fee period, the available award fee (or award fee pool) will be calculated by the Government based on a percentage of physical completion for each task order during the award fee period.

D. The Contractor will be given an award fee rating based on performance as measured against the elements incorporated in the Award Fee Plan, Section J, Attachment JC.8.

E. For any task order which is not 100% complete within an evaluation period, no less than 25% of the available award fee will be retained until the completion of the task order. Upon completion, all the remaining award fee for the task order is eligible to be earned by the Contractor.

F. The percentage of completion and award fee rating are Government determinations not subject to FAR 52.233-1, Disputes, incorporated in Section I, Paragraph I 1.

G17 INDIRECT RATES AND CEILINGS

A. The Memorandum of Agreement as shown below will be completed at time of award and will incorporate the indirect rates for the Base Year and the ceiling indirect rates for Option Years 1 through 7 as proposed on the form in Section J, Attachment JL.8.

1. Base Year Indirect Rates. The following indirect rates will be used for estimating purposes for the base year of the contract:

(To be completed at time of award):

Fringe	_____ %	Applied to: _____
Labor Overhead	_____ %	Applied to: _____
General & Administrative	_____ %	Applied to: _____
Facilities Capital Cost of Money	_____ %	Applied to: _____
_____	_____ %	Applied to: _____
_____	_____ %	Applied to: _____

2. Indirect Rate Ceilings for Option Years One through Seven. The maximum indirect rates which may be charged on any effort performed under this contract for indirect expenses for Option Years 1 through 7 shall not exceed the following:

(To be completed at time of award):

<u>Ceiling Indirect Rates:</u>	<u>Fringe</u>	<u>Overhead</u>	<u>G &A</u>	<u>FCCM</u>
First Option Year	____%	____%	____%	____%
Second Option Year	____%	____%	____%	____%
Third Option Year	____%	____%	____%	____%
Fourth Option Year	____%	____%	____%	____%
Fifth Option Year	____%	____%	____%	____%
Sixth Option Year	____%	____%	____%	____%
Seventh Option Year	____%	____%	____%	____%

3. Should actual indirect rates experienced during performance of the contract be lower than those shown above, actual rates will be charged in lieu of the ceiling rates.

4. If, during the course of this contract, there is a statutory change in the indirect cost elements, i.e., FICA, FUTA, SUTA, etc., the ceilings established herein will be adjusted accordingly. Additionally, should there be a substantial increase in insurance expenses not caused by a change in the basic coverage, the contractor may request that the established ceilings be modified to accommodate this increase. Final decision on whether or not to change the established ceiling in this case shall remain with the Contracting Officer and is not subject to FAR 52.233-1, Disputes, incorporated in Section I, Paragraph I 1.

G18 PHASE-IN/MOBILIZATION

Task orders may be issued on the date the contract becomes effective. The first task order is anticipated to be issued within 45 calendar days after contract award. One of the initial task orders will be for mobilization. The scheduled duration for the mobilization phase is no longer than 180 calendar days. The Contractor is required to be fully staffed and operational at the completion of the mobilization phase. The

commencement date for operation of the base camp will be included in the task order for mobilization. The Contractor shall provide a balanced work force as needed to accomplish the work required for phase-in/mobilization.

G19 GOVERNMENT FURNISHED/CONTRACTOR ACQUIRED PROPERTY

A. The Contractor will establish and maintain a program for the use, maintenance, repair, protection and preservation of Government Property in accordance with sound business practice and FAR 52.245-5, Government Property (Cost Reimbursement, Time-and-Material, or Labor-Hour Contracts), as noted in Section I 1.

B. The Government may furnish to the Contractor or direct the Contractor to purchase, for use in connection with this contract, various property to be identified on the individual task orders. Each task order, as applicable, will identify the property and quantity of Government-Furnished Property. Upon loss or destruction of, or damage to, Government Property provided under this contract, the Contractor shall notify the Contracting Officer and furnish the information required by FAR Clause 52.245-5.

C. After award of the contract, the Government will provide for the transfer of Government Property, as Government-Furnished Property, to this contract in accordance with FAR 45.311. At the time of transfer, the Government's official property records will be provided to the successor contractor.

D. The Government Furnished Property Inventory attached in Section J, Attachment JC.10, is to be used for proposal purposes only. After award of the contract and transfer of the Government's official property records, the Government Furnished Property Inventory will be negotiated and revised to reflect the actual property which will be allocated under this contract.

E. An annual report of all property for which the Contractor is accountable under this contract shall be provided in duplicate to the Government Property Administrator, and prepared in accordance with DFARS 252.245-7001 incorporated in Section I, paragraph I 1.

G20 TRAVEL COSTS

A. Performance under this contract may require travel by Contractor personnel. If travel is required, the Contractor is responsible for making all needed arrangements for personnel. This may include medical examinations and security clearances. Miscellaneous charges such as these, incurred due to required travel under the contract, will not be billed by the Contractor as a direct charge. The Contractor will exercise prudence in travel by exercising the same care in incurring expenses and accomplishing a mission that a prudent person would exercise if traveling on personal business. Excess costs, circuitous routes, delays or luxury accommodations unnecessary or unjustified in the performance of a mission are not considered acceptable as exercising prudence. The Contractor will be responsible for excess costs and any additional expenses incurred for personal preference or convenience. The Government will reimburse the Contractor for allowable, allocable, and reasonable travel costs incurred by the Contractor in performance of the contract/task order, in accordance with FAR Subpart 31.2 and the rules and definitions set forth in the Joint Travel Regulations (JTR) for temporary duty, and local travel.

B. Reimbursement of relocation costs will be in accordance with the JTR, Part B, "First Duty Station Travel", Section C4050, paragraph A, and Section C4051, paragraph E. Reimbursement will be limited to costs incurred by key personnel during the base year of the contract only. To be eligible for reimbursement, the Contractor must provide a copy of a signed agreement with their key personnel stating the employee's intent to remain in the position for a minimum of one year. Prorated costs of relocation will be reimbursed to the Government if the employee does not complete the employment period. Upon pre-approval by the Contracting Officer, reimbursement of relocation costs may include a not-to-exceed amount for travel for the purpose of arranging housing prior to relocation; such travel shall be limited to costs incurred by one person for not more than seven days.

C. The reimbursement of any costs related to relocation, transportation, and per diem will be consistent with the Contractor's travel policy, but not to exceed the amounts authorized in the JTR, as follows:

1. Air. The Contractor shall be reimbursed for the actual cost of air transportation provided that such costs are the lowest customary standard, coach or equivalent, airfare offered during normal business hours unless higher fares are justified in accordance with FAR 31.205-46(d). Travel arrangements shall be made as far in advance as possible so as to obtain the most favorable airfare rates.

2. Privately Owned Conveyance. Reimbursement for the use of privately owned conveyances by the Contractor's personnel will be at the rate in effect at time of travel under the JTR and will include all necessary tolls when such travel is necessary for performance under this contract.

3. Auto Rental. Reimbursement for the use of rental cars (most economical class available consistent with the need) by the Contractor's personnel will be at actual cost.

4. Other Public Transportation. The use of other public transportation by the Contractor's personnel will be reimbursed at actual cost.

5. Personnel in Travel Status. Official travel status is defined as travel authorized by the contract/task order necessary for performance of this contract and shall be reimbursed under this contract. However, such reimbursement shall not exceed eight labor hours per individual while in travel status during one calendar day. Travel outside regular duty hours shall not be reimbursed except when it involves the performance of work while traveling and is carried out under arduous conditions or results from an event that could not be scheduled or controlled administratively by either the Contractor or Government.

6. Per Diem. Expenses for subsistence and lodging shall be reimbursed to the Contractor only to the extent where an overnight stay is necessary and authorized by the task order for performance under this contract (but see paragraph 7(a)(2) below). Incurred costs shall be considered to be reasonable and allowable only to the extent that they do not exceed, on a daily basis, the maximum per diem rates in effect at the time of travel as set forth in the JTR.

7. Travel Policies.

(a) Travel performed for personal convenience and daily travel to and from work at the Contractor's facility will not be reimbursed. Advance agreements on travel accommodations may be established after award of the contract in accordance with FAR 31.109. The Contractor shall make every effort to house transient personnel in economical quarters or in Government quarters. To justify staying in commercial hotels, the Contractor shall confirm that no Government quarters are available, obtain certificates of nonavailability (CNAs) and submit the CNA to the Government.

(1) Temporary Duty (Overnight Stay Required). If an employee is required to travel to a temporary duty station in the performance of this contract requiring interisland travel or other off-island travel, the cost of transportation and per diem will be reimbursed. Official travel begins at the time an employee leaves his/her home, office, or other authorized point of departure and ends when the traveler returns to his/her home, office, or other authorized point at the conclusion of the trip.

(2) One Day Travel (Interisland). When the period of official travel is 24 hours or less, but greater than two hours more than the employee's normal workday, transportation and per diem costs will be reimbursed, consistent with company policy but not to exceed the amounts authorized in the JTR.

(3) Local Travel (Intra-Island). Costs of commercial transportation and mileage for Privately Owned Vehicles (POVs) used in the performance of this contract for local travel will be reimbursed if it is advantageous to the Government. Per diem and travel time outside regular duty hours will not be reimbursed for local travel.

(b) The Contractor shall submit evidence such as receipts with invoices, substantiating actual costs incurred as set forth in Section G, paragraph G12. In no event will reimbursement exceed the published rates of common carriers unless justified and approved in advance by the Contracting Officer.

G21 NONREIMBURSABLE COSTS

A. The following items which are required in the performance of the contract will not be reimbursed by the Government as a direct cost:

1. Those training costs to initially attain and/or retain the training requirements listed in Section C, paragraph 1.4.1.
2. Personal Protective Equipment listed in Section C, paragraph 3.5.
3. Approximately sixteen hours of UXO Specialist Update Training referenced in Section C, paragraph 1.4.3.

G22 REIMBURSABLE COSTS

The Government will reimburse the costs for the unique training requirements referenced in Section C, paragraph 1.4.2. The Government will also reimburse the cost of 24 hours of UXO Specialist Update Training referenced in Section C, paragraph 1.4.3.

SECTION H
(REPLACED IN ITS ENTIRETY)

Enclosure 3 of
Amendment No. 0004

**SECTION H
SPECIAL CONTRACT REQUIREMENTS**

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**SECTION H
SPECIAL CONTRACT REQUIREMENTS**

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SECTION H SPECIAL CONTRACT REQUIREMENTS

H1 FAC 5252.216-9312 MINIMUM AND MAXIMUM QUANTITIES (JUN 1994)

As referred to in paragraph (b) of FAR 52.216-22, Indefinite Quantity clause, the contract minimum quantity is one percent (1%) of the estimated total quantity. Should the Government fail to place orders totaling the amount of the contract minimum quantity, the provisions of FAR 52.249-6, Termination (Cost Reimbursement) shall apply to the unordered amount of the contract minimum quantity. The maximum quantity shall not be exceeded except as may be provided for formal modification to the contract.

H2 FAC 5252.222-9305 WORK PERFORMED BY INDIVIDUAL ASSIGNED CATEGORIES (JUN 1994)

Regardless of any individual employee's normally assigned category of labor, the functions being performed by that individual during any period of work at a specific site shall determine the rate to be paid for that employee (e.g., a Chemist who is performing the duties of a Technician, Level 1, shall be charged at the fixed rate for a Technician, Level 1, during the period of time he or she is performing those duties).

H3 PROPOSAL PREPARATION COSTS

The costs for preparation of cost proposals and technical proposals and for various administrative costs applicable to all task orders will be charged in a manner consistent with the Contractor's approved cost accounting system.

H4 HOLIDAYS

A. All or a portion of the effort will be performed under a Government contract. Listed below are the holidays observed by the Federal Government. The Contractor will not be allowed to work on these days without prior approval of the Contracting Officer.

<u>NAME OF HOLIDAY</u>	<u>TIME OF OBSERVANCE</u>
New Year's Day	1 January
Martin Luther King, Jr. Day	Third Monday in January
President's Day	Third Monday in February
Memorial Day	Last Monday in May
Independence Day	4 July
Labor Day	First Monday in September
Columbus Day	Second Monday in October
Veteran's Day	11 November
Thanksgiving Day	Fourth Thursday in November
Christmas Day	25 December

B. In the event any of the above holidays occur on a Saturday or a Sunday, such holiday shall be observed by the Contractor in accordance with the practice as observed by the Government employees at the using activity.

C. If the Contractor is prevented from performance as the result of an Executive Order or an administrative leave determination applying to the Government, such time may be charged to the contract as a direct cost provided that such charges are consistent with the Contractor's accounting practices.

H5 NOTICE OF CONSTRUCTIVE CHANGES

No order, statement or direction of the Contracting Officer's Technical Representative, the authorized representative of the Contracting Officer, whether or not acting within the limits of his authority, or any other representative of the Government, shall constitute a change under the "Changes" clause of this contract or entitle the Contractor to an equitable adjustment of the contract price or delivery schedule, unless such a change is issued in writing and signed by the Contracting Officer. No representative of the Contracting Officer shall be authorized to issue a written change order under the "Changes" clause of this contract. In accordance with FAR Clause 52.243-7, "Notification of Changes," the Contractor shall promptly notify the Contracting Officer when they consider any direction received to be a change to the originally negotiated scope of the task order. When the Contractor receives a technical direction which is believed to be a change, the Contractor shall contact the Contracting Officer as required in FAR Clause 52.243-7, "Notification of Changes".

H6 MEMORANDUM OF AGREEMENT FOR DIRECT LABOR RATES AND MAXIMUM AWARD FEE

A. The Memorandum of Agreement incorporated in Section G, paragraph G14, establishes the estimating hourly labor rates and maximum hourly rates for employees defined under 29 CFR Ch. V, Sections 541.1, Executive, 541.2, Administrative, and 541.3, Professional, and escalation of rates for Executive, Administrative and Professional personnel for the option years. The escalation of rates shall be in an amount not-to-exceed the Consumer Price Index (CPI) published by the Department of Labor, using rates for the local region if available.

B. The Memorandum of Agreement incorporated in Section G, paragraph G14, establishes a ceiling for direct labor rates for employees subject to the Service Contract Act and Davis Bacon Act by including a percentage over the minimum rates set forth in the Acts. This ceiling also applies to any classification that will be conformed.

C. The Memorandum of Agreement incorporated in Section G, paragraph G14, establishes the maximum award fee percentages. Award fee will not be estimated on travel costs, Contractor-acquired property including rentals, and Facilities Capital Cost of Money.

D. The rates, ceilings, escalation factors and maximum award fee percentages will apply throughout the life of the contract.

H7 INDIRECT RATES AND CEILINGS

A. The Memorandum of Agreement incorporated in Section G, paragraph G17, establishes the indirect rates for the Base Year, and the ceiling indirect rates for Option Years 1 through 7 and are applicable throughout the life of the contract.

B. If there are any statutory changes in the indirect cost elements, or a substantial increase in insurance expenses not caused by a change in the basic coverage, the Contractor may propose to modify the established ceilings.

H8 REQUIRED INSURANCE

A. Within thirty (30) days after award of this contract, the Contractor **and the subcontractor if the terms of the prime contract are extended to the subcontract** shall furnish the Contracting Officer a Certificate(s) of Insurance as evidence of the existence of the following insurance coverage in amounts not less than the amount **and type** specified below in accordance with FAR 28.307-2. This insurance must be maintained during the entire performance period.

COVERAGE

General Liability: \$500,000 per occurrence.

Automobile Liability: \$200,000 per person; \$500,000 per occurrence for bodily injury; \$20,000 per occurrence for property damage.

Workmen's Compensation: As required by Federal and State Workers' compensation and occupational disease statutes.

Employer's Liability Coverage: \$100,000, except in states where workers' compensation may not be written by private carriers.

Aircraft Public and Passenger Liability: \$200,000 per person; \$500,000 per occurrence for bodily injury, other than passenger liability; \$200,000 per occurrence for property damage. **Coverage for passenger liability bodily injury shall be at least \$200,000 multiplied by the number of seats or passengers, whichever is greater.**

Vessel liability:

MARITIME INSURANCE

1. General. During the full period of this contract, for any vessel performing services pursuant to this contract, whether owner by the contractor or under charter to the contractor, the contractor, vessel owner and/or operator of the vessel shall maintain the customary full-form marine insurance coverage on the Vessel (including cover against pollution damage and cargo loss), including Hull and Machinery, Protection and Indemnity (P&I), War Risk Hull and Machinery including P&I and Second Seamen's War Risk.

2. Limitation of Liability. Except as otherwise specifically provided herein, the Government shall not be liable for any loss, damage, expense, cost or liability whatsoever and howsoever incurred by the Owner of a vessel performing services under this contract or by the vessel or which are imposed upon such Owner or vessel by operation of law to the extent such loss, damage, expense,

cost or liability would normally be covered by insurance of the type described in the preceding paragraph. Any amount due owner under this Article shall be subject to setoff by the Government to the extent of any amount recovered under insurance carried by Contractor or to the extent of any amount recoverable under insurance required in the preceding paragraph.

3. Notification to Government. *Contractor shall, to the maximum extent practicable, keep the Government, through the Contracting Officer, currently informed, in writing, as to the potential vitiation, suspension, lapse or termination of any of the Vessel's insurance policies required to be maintained pursuant to this clause.*

4. Government Named Assured. *The United States of America shall be named as an additional assured with waiver of subrogation under the Vessel's Hull and Machinery policy (and under the Increased Value policy if applicable), under the Vessel's P&I, and Second Seamen's War Risk. The naming of the United States on Owner's P&I policy shall be subject to the provisions of Owner's Privilege Clause, when such clause is substantially the same as Privileges Clauses standard in the maritime industry.*

5. Deductible. *In no event shall any of the foregoing insurance provided in this section, "Maritime Insurance", contain a deductible in excess of \$50,000.*

Others as required by state law.

B. Above insurance coverage are to extend to Contractor personnel operating Government owned equipment and vehicles.

C. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective until 30 days after the insurer or Contractor gives written notice to the Contracting Officer.

D. The Contractor will provide the Contracting Officer with a copy of Certificate(s) of Insurance which verifies renewal of insurance coverage prior to expiration of the previous policy period.

H9 STRIKE CONTINGENCY PLAN

Within fifteen (15) working days after award, the Contractor shall prepare and submit to the Contracting Officer or his designated representative for approval, a detailed contingency plan for performing the contract requirements in the event of a work disruption or stoppage by Contractor employees.

H10 PUBLIC RELEASE OF INFORMATION

A. The Contractor shall not publicly disclose information concerning any aspect of this contract without the prior written approval of the Contracting Officer, unless required by law.

B. The Contractor shall not refer to this contract and all resulting task orders in such a manner as to state or imply that the products or services provided are endorsed or preferred by the Government, or considered by the Government to be superior to other products or services. News releases, advertisements, and company brochures containing information pertaining to this contract shall not be released without the prior written approval of the Contracting Officer.

C. Should the Contracting Officer approve proposed presentations of the work being performed to outside organizations, and the technologies being utilized under this contract, the Contractor shall video tape the entire presentation and any question and answer sessions for the Government's subsequent review.

D. The Contractor shall insert the substance of this paragraph into each subcontract and purchase order related to this project. Nondisclosure Agreement Forms will be provided by the Government after contract award for execution by all Contractors, subcontractors, and suppliers prior to commencement of work. These forms shall be maintained by the Contractor and upon request, shall be provided to the Government.

H11 CONTRACTOR'S ACCOUNTING SYSTEM

The Contractor shall employ and disclose, in writing, their cost accounting system and practices for this contract which shall identify and record site specific costs on a site specific basis and by task order. Site specific cost documentation for each task order must be readily retrievable and sufficiently identifiable to enable cross-referencing with payment vouchers. The foregoing is in addition to and/or complementary to Cost Accounting Standards (CAS) requirements. See FAR Clauses 52.230-2, "Cost Accounting Standards," and 52.230-5, "Administration of Cost Accounting Standards" incorporated in Section I.

H12 CONTRACTOR'S PURCHASING SYSTEM

A. The Contractor's purchasing system is subject to the requirements of FAR Part 44 and other Government regulations with respect to ensuring maximum competition, ensuring adequate methods of determining responsibility are utilized, ensuring compliance with labor surplus and small business considerations, ensuring effective management of subcontracts, and the cost for services obtained are fair and reasonable.

B. As a general purchasing practice, the use of any broker, retailer, or other intermediary (which usually causes a price increase in the item being purchased) should be avoided.

C. The Contractor shall submit its purchasing system policies and procedures to the Contracting Officer for approval, within 180 calendar days of contract award.

H13 CONSENT TO SUBCONTRACT

A. If the Contractor does not have an approved purchasing system, the Contractor is required to obtain written consent from the Contracting Officer to enter into a subcontract in accordance with FAR Subpart 44.201-2. If the Contractor has an approved Purchasing System, consent is no longer required; however, advance notification is still required by 10 U.S.C. 2306(e) or 41 U.S.C.(b). The Subcontracts Clause (Cost-Reimbursement and Letter Contracts), FAR 52.244-2 incorporated in Section I is specific about the information required from the Contractor.

B. Contracting Officer approval is granted to subcontract with the firm(s) listed below:

 (To be filled in at time of award)

H14 INDEMNIFICATION

There are special provisions concerning indemnification by the U.S. Navy to the State of Hawaii during the period of Navy control of access to the Kaho'olawe Island Reserve. See Section 10001(e) of Title X, Public Law 103-139.

H15 EXPERT TESTIMONY SERVICES

A. During or subsequent to the performance period of this contract, the need may arise to provide expert testimony during hearings and/or court proceedings involving site specific activities or other matters, with regard to which personnel provided by the Contractor under this contract (including subcontractor personnel) would have gained expertise as a result of tasks performed under this contract. Such effort shall be considered within the scope of this contract if expert testimony is required during the performance period of the contract. The individual(s) selected to testify shall be fully knowledgeable of the details of the site under litigation, shall be credible, and be an expert in their field. The testimony shall normally relate to the actions the Contractor took at a site.

B. In the event such services are required after the performance period of this contract, the Contractor agrees to make available expert testimony services in support of such future proceedings. The Contractor further agrees to enter into intent agreements as necessary with subcontractors to ensure the availability of subcontractor personnel provided under this contract to provide future expert consulting services. These future expert consulting services would be provided by a separate negotiated procurement action instituted with the Contractor.

H16 FABRICATION OR ACQUISITION OF NONEXPENDABLE PROPERTY

The Contractor shall not fabricate nor acquire under this contract, either directly or indirectly through a subcontract, any item of nonexpendable property without written approval from the Contracting Officer. The equipment is subject to the provisions of FAR 52.245-5, "Government Property," incorporated by reference in Section I.

H17 JOINT VENTURE REQUIREMENTS

The following requirements apply to Joint Ventures:

A. Each corporate joint venture partner shall submit evidence satisfactory to the Contracting Officer that its Board of Directors has approved its participation in the joint venture. Such evidence shall be in the form of a copy of a resolution of the Board of Directors, certified by the Secretary of the corporation.

B. Each joint venture partner which is an unincorporated entity shall submit evidence satisfactory to the Contracting Officer that all persons or entities which must approve decisions affecting the joint venture partner have approved the participation of the joint venture partner in the joint venture.

C. Each joint venture shall appoint in writing an attorney in fact who will have full authority to bind the joint venture with respect to any act connected with the participation by the joint venture in this contract. Documents of appointment shall be satisfactory to the Contracting Officer, and shall be accompanied by a supporting resolution of the Board of Directors in the case of a corporate joint venture partner, and by an instrument of similarly binding character in the case of an unincorporated entity.

D. Documents submitted by or on behalf of the joint venture shall be executed by each joint venture partner and be accompanied by a document satisfactory to the Contracting Officer, which would ordinarily be, in the case of a corporate joint venture partner, a certified copy of a resolution of the Board of Directors, and in the case of an unincorporated joint venture partner, an instrument of similarly binding character duly executed by that entity. If one individual signs for more than one partner, the individual must sign separately for each partner which he or she represents, and must state under each signature the capacity in which he or she is signing. (See FAR Part 4.102)

E. Each joint venture shall provide a copy of the joint venture agreement to the Contracting Officer and shall provide an updated copy whenever any change is made to the agreement.

H18 SECTIONS INCORPORATED BY REFERENCE

Sections K, L and M of this solicitation, as completed by the Contractor, are hereby incorporated by reference. All representations made by the Contractor in its offer are binding until completion of this contract. Sections K, L and M are included in this award but are not physically reproduced, in accordance with FAR 15.406-1(b), as a means of reducing paperwork. Copies of Sections K, L and/or M will be provided upon request.

H19 RESERVED

SECTION L
(REPLACED IN ITS ENTIRETY)

Enclosure (4) of
Amendment No. 0004

SECTION L
INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

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SECTION L
INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

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SECTION L
INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

L1 FAR 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (JUN 1988)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

<u>FAR REF. NUMBER</u>	<u>CLAUSE TITLE</u>	<u>DATE</u>
52.215-5	Solicitation Definitions	JUL 1987
52.215-7	Unnecessarily Elaborate Proposals or Quotations	APR 1984
52.215-8	Amendments to Solicitations	DEC 1989
52.215-9	Submission of Offers	JUL 1995
52.215-10	Late Submissions, Modifications, and Withdrawals of Proposals	AUG 1996
52.215-12	Restriction on Disclosure and Use of Data	APR 1984
52.215-13	Preparation of Offers	APR 1984
52.215-14	Explanation to Prospective Offerors	APR 1984
52.215-15	Failure to Submit Offer	JUL 1995
52.222-24	Preaward On-Site Equal Opportunity Compliance Review	APR 1984
52.222-46	Evaluation of Compensation for Professional Employees	FEB 1993

L2 FAR 52.211-2 AVAILABILITY OF SPECIFICATIONS LISTED IN THE DOD INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) (MAR 1994)

Single copies of specifications cited in this solicitation may be obtained by submitting a written request to the supply point listed below. The request must contain the title of the specification, its number, date, applicable amendment(s), and the solicitation or contract number. A telephone order entry system is available with the use of a touch tone telephone. A Customer Number is required to use this system and may

be obtained by written request to the address listed below or by telephone (215-697-2179). In case of urgency, telegraphic requests are acceptable. Voluntary standards, which are not available to offerors and contractors from Government sources, may be obtained from the organization responsible for their preparation, maintenance, or publication.

Standardization Document Order Desk,
Building 4, Section D
700 Robbins Avenue
Philadelphia, PA 19111-5094

Facsimile No.....215-697-2978

Telephone Order Entry System (TOES).....215-697-1187 through 1197

L3 **FAR 52.212-7 NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE**
(SEP 1990)

Any contract awarded as a result of this solicitation will be a [] DX rated order; [X] DO rated order certified for national defense use under the Defense Priorities and Allocations System (DPAS) (15 CFR Part 700), and the Contractor will be required to follow all of the requirements of this regulation.

L4 **FAR 52.215-16 CONTRACT AWARD (ALTERNATE II) (OCT 1995)**

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, cost or price and other factors, specified elsewhere in this solicitation, considered.

(b) The Government may (1) reject any or all offers if such action is in the public interest, (2) accept other than the lowest offer, and (3) waive informalities and minor irregularities in offers received.

(c) The Government intends to evaluate proposals and award a contract without discussions with offerors (except communications conducted for the purpose of minor clarification). Therefore, each initial offer should contain the offeror's best terms from a cost or price and technical standpoint. However, the Government reserves the right to conduct discussions if later determined by the Contracting Officer to be necessary.

(d) The Government may accept any item or group of items of an offer, unless the offeror qualifies the offer by specific limitations. Unless otherwise provided in the Schedule, offers may be submitted for quantities less than those specified. The

Government reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit cost or prices offered, unless the offeror specifies otherwise in the offer.

(e) A written award or acceptance of offer mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer, as provided in paragraph (d) above), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award. Negotiations conducted after receipt of an offer do not constitute a rejection or counteroffer by the Government.

(f) Neither financial data submitted with an offer, nor representations concerning facilities or financing, will form a part of the resulting contract. However, if the resulting contract contains a clause providing for price reduction for defective cost or pricing data, the contract price will be subject to reduction if cost or pricing data furnished is incomplete, inaccurate, or not current.

(g) The Government may determine that an offer is unacceptable if the prices proposed are materially unbalanced between line items or subline items. An offer is materially unbalanced when it is based on prices significantly less than cost for some work and prices which are significantly overstated in relation to cost for other work, and if there is a reasonable doubt that the offer will result in the lowest overall cost to the Government, even though it may be the low evaluated offer, or it is so unbalanced as to be tantamount to allowing an advance payment.

(h) The Government may disclose the following information in post-award debriefings to other offerors: (1) the overall evaluated cost or price and technical rating of the successful offeror; (2) the overall ranking of all offerors, when any ranking was developed by the agency during source selection; (3) a summary of the rationale for award; and (4) for acquisitions of commercial end items, the make and model of the item to be delivered by the successful offeror.

L5 FAR 52.215-41 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (ALTERNATE IV) (OCT 1995)

(a) Submission of cost or pricing data is not required.

- (b) Provide information described below:

The information submitted shall be at the level of detail described in Paragraph L17, Paragraph D., Volume II - Cost Proposal. Standard Form 1448, Proposal Cover Sheet (Cost or Pricing Data Not Required), should be used by offerors and can be found at Section J, Attachment JL.1.

L6 FAR 52.216-1 TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a cost plus award fee, indefinite delivery/indefinite quantity (ID/IQ) contract resulting from this solicitation.

L7 FAR 52.233-2 SERVICE OF PROTEST (AUG 1996)

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO) shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from:

Code 0213
Pacific Division
Naval Facilities Engineering Command
Pearl Harbor, Hawaii 96860-7300

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

L8 DFARS 252.204-7001 COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING (DEC 1991)

(a) The Offeror is requested to enter its CAGE code on its offer in the block with its name and address. The CAGE code entered must be for that name and address. Enter CAGE before the number.

(b) If the Offeror does not have a CAGE code, it may ask the Contracting Officer to request one from the Defense Logistics Services Center (DLSC). The Contracting Officer will--

- (1) Ask the Contractor to complete section B of a DD Form 2051, Request for Assignment of a Commercial and Government Entity (CAGE) Code;
 - (2) Complete Section A and forward the form to DLSC; and
 - (3) Notify the Contractor of its assigned CAGE code.
- (c) Do not delay submission of the offer pending receipt of a CAGE code.

L9 DFARS 252.237-7019 IDENTIFICATION OF UNCOMPENSATED OVERTIME
(APR 1992)

(a) Definitions.

As used in this provision--

(1) "Uncompensated overtime" means the hours worked in excess of an average of 40 hours per week by direct charge employees who are exempt from the Fair Labor Standards Act (FLSA) without additional compensation. Compensated personal absences, such as holidays, vacations, and sick leave, shall be included in the normal work week for purposes of computing uncompensated overtime hours.

(2) "Uncompensated overtime rate" is the rate which results from multiplying the hourly rate for a 40 hour work week by 40, and then dividing by the proposed hours per week. For example, 45 hours proposed on a 40 hour work week basis at \$20.00 would be converted to an uncompensated overtime rate of \$17.78 per hour, $(\$20 \times 40)$ divided by 45 = \$17.78.

(b) For any hours proposed against which an uncompensated overtime rate is applied, the Offeror shall identify in its proposal the hours in excess of an average of 40 hours per week, at the same level of detail as compensated hours, and the uncompensated overtime rate per hour, whether at the prime or subcontract level. This includes uncompensated overtime hours that are in indirect cost pools for personnel whose regular hours are normally charged direct.

(c) The Offeror's accounting practices used to estimate uncompensated overtime must be consistent with its cost accounting practices used to accumulate and report uncompensated overtime hours.

(d) Proposals which include unrealistically low labor rates, or which do not otherwise demonstrate cost realism, will be considered in a risk assessment and evaluated for award in accordance with that assessment.

(e) The Offeror shall include a copy of its policy addressing uncompensated overtime with its proposal.

L10 DFARS 252.242-7000 POSTAWARD CONFERENCE (DEC 1991)

The Contractor agrees to attend and actively participate in any postaward conference convened by the contracting activity or contract administration office in accordance with Federal Acquisition Regulation Subpart 42.5.

L11 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA

NOTE: FAR 52.223-3 and DFARS 252.223-7001 is incorporated in Section I by reference.

The Contractor will forward a completed Material Safety Data Sheet (MSDS) (on OSHA Form 174 or equivalent) to the Contracting Officer for any hazardous item delivered. The Contracting Officer will ensure that each form identifies the NSN, manufacturer's name and part number/trade name of the item procured and forward forms to the focal point of the managing service/agency in accordance with DOD Instruction 6050.5 "Hazard Communication Program."

L12 SIGNATURE REQUIREMENT FOR CERTIFICATE OF PROCUREMENT INTEGRITY

Section K of this solicitation contains FAR 52.203-8, REQUIREMENT FOR CERTIFICATION OF PROCUREMENT INTEGRITY - ALTERNATE I (SEP 1995). The certification must be signed by the person responsible for the offer in the space provided in paragraph (b)(4) and submitted with your proposal. Failure to sign the certification may result in the offer being rejected as nonresponsive.

L13 NOTICE OF ORGANIZATIONAL CONFLICT OF INTEREST CLAUSES

This solicitation contains restrictions on Organizational Conflict of Interest which will pertain to any contract awarded hereunder, and are imposed upon the Contractor to avoid the circumstances of an unfair competitive advantage or a potential organizational conflict of interest. The application of FAR Subpart 9.5 to this procurement and/or any waivers to the terms of these provisions shall be handled in accordance with FAR Subpart 9.503.

L14 INSTRUCTIONS FOR SUBMITTING QUESTIONS REGARDING SOLICITATION

Proposers are requested to review this solicitation, including the Statement of Work (SOW), as soon as possible upon receipt. If a proposer has any questions regarding the solicitation or SOW which require an answer from the issuing office, immediately submit these questions in writing to the address listed in Clause G2, Contract Administration Information. Questions submitted by facsimile transmission are acceptable: send to Code 0213, facsimile no. **(808) 474-1104**. Additional opportunities to submit written questions will be made available during the pre-proposal conference (see below).

L15 PRE-PROPOSAL CONFERENCE

A. Both a site visit and pre-proposal conference will be conducted for this solicitation; details will be furnished in a separate letter to all interested firms.

B. During the conference, a general overview of the solicitation requirements will be provided by the Government. As noted above, a further opportunity for offerors to submit written questions will be made available following the site visit.

C. Government replies to proposers' questions concerning any aspect of this Request for Proposal (RFP) will be recognized as official only if the proposer submits the question in writing, is provided a written reply by the Contracting Officer, and such questions and answers are made a part of the RFP by incorporation, in writing, by an amendment thereto. Proposers are specifically cautioned that oral discussions and replies to questions shall not have the effect of changing the provisions of the written RFP.

L16 COST OR PRICING DATA

There is no requirement to certify cost or pricing data in your proposal, see FAR 52.215-41 incorporated in Paragraph L5. Various pricing elements and their effect on overall cost will be competitively evaluated in comparison with other offerors.

L17 SUBMISSION OF PROPOSALS

A. Proposal Format. In response to this Request for Proposal (RFP), proposals shall be submitted to:

Commander, Pacific Division (Code 0213)
Naval Facilities Engineering Command
Bldg. 258, Makalapa Drive, Makalapa Crater
Pearl Harbor, HI 96860-7300

The proposal shall be submitted in two separately bound volumes as follows:

- Volume I - Technical Proposal (original and eight copies)
- Volume II - Cost Proposal (original and eight copies)

1. The package(s) shall be marked with the name of the prime proposer, the solicitation number, and the date and time specified for receipt of proposals. No other markings shall be used on the package(s). Proposals not received at the above address on or before the hour and date set forth for receipt of proposals shall be subject to the provisions of FAR 52.215-10, "Late Submissions, Modifications, and Withdrawals of Proposals (AUG 1996)".

2. Your proposal shall be specific and complete, and shall demonstrate a thorough understanding of the requirements of the Statement of Work, Sample Project, Project Management Office and organization, and the proposed contract instrument. It should include, where applicable, diagrams, charts, and complete explanations of the plans, schedules, and procedures you propose to follow. Unnecessarily elaborate brochures or other presentations beyond those sufficient to present a complete proposal are not desired. Elaborate art work and expensive presentation aids are neither necessary nor desired. Legibility, clarity, and completeness are much more important.

3. The proposal must set forth full, accurate and complete information as required by this RFP. Consequences for making false statements in a proposal may include criminal liability under 18 U.S.C. 1001. The proposal, including the completed Attachments JL.1, and JL.3 through JL.10, will become an enforceable portion of the contract. Where the Contractor's proposal exceeds the solicitation specifications either in quantity or quality of service, and the Government prefers the proposed service, the proposal shall take precedence over Section C, "Descriptions/Specs/Work Statement," of the RFP.

4. All proposals shall address the elements stated herein in the required format. The cover sheet shall contain only the name, address, and telephone number of the proposed prime Contractor and team subcontractor(s), or the proposed joint venture and joint venture partners; the solicitation number; and the proposer's name, position, and signature. Proposal clarity, organization in accordance with this solicitation, and cross referencing are mandatory. Incorporation of any material by reference is not permitted.

5. All information shall be typewritten and submitted in 8 1/2" x 11" format in three-ring binders. Type size shall be 12 point or larger. Text lines shall be spaced at no less than 1 space (single space), not to exceed 55 lines per page. No pen and ink changes are allowed.

(a) A page is defined as one face of a sheet of paper containing information including title pages, text, labels, figures, indexes, and attachments. Two pages may be printed on a single sheet of paper, front and back, but will count as two pages. Foldouts of 11" x 17" may be used; however, they will count as two pages, and if printed on both sides, will count as four pages.

(b) Pages shall be sequentially numbered within each identified subpart and appendix, and each subpart and appendix shall begin with a new sequence of numbers.

(c) Beginning and ending page numbers for each part and subpart shall be clearly identified in the Table of Contents. Parts and subparts shall be adequately indexed within each volume.

(d) Information (text, tables, etc.) may be presented in columnar format.

6. Volume I, the Technical Proposal, shall be prepared in accordance with the instructions provided in Paragraph B., below, "Volume I - Technical Proposal."

7. Volume II, the Cost Proposal, shall be prepared in accordance with the instructions provided in Paragraph D., below, "Volume II - Cost Proposal." The complete proposal shall include both Volumes I and II.

B. Volume I - Technical Proposal. Volume I shall be the technical proposal covering the proposer's understanding of the work and the proposed method of attaining contract objectives. ***To assist in the preparation of your technical proposal, refer to the breakdown of the estimated cost plus award fee for the base year and each option year in Section B, Supplies or Services and Prices/Cost.***

1. In order that your technical proposal may be evaluated strictly on the merit of the material submitted, no cost information shall be included therein. If estimated labor hours are included, they shall be stated in labor hour figures only, with no indication as to the cost of these labor hours. Proposers will organize their proposals to directly correspond with the Parts and Subparts as noted below.

2. To facilitate the evaluation, the technical proposal should be sufficiently detailed and complete to clearly and fully demonstrate that the proposer has a thorough understanding of the requirements. However, proposers are advised that excessive wordiness may detract from the value assigned to a proposal. Substantial extraneous information in the technical proposal may be construed as indicative of the proposer's ignorance of the subject or a casual approach to the RFP. Statements that the prospective proposer understands and can or will comply with all specifications, statements paraphrasing the statement of work or parts thereof, and phrases such as "standard procedures will be employed" or "well known techniques will be used", etc., will be considered insufficient.

3. In the event that use of subcontractor(s) in a "team" approach is proposed, wherein the subcontractor(s) will accomplish significant portions of a clearly identifiable scope of work on a consistent basis, or on a consistent overflow basis, a "team" relationship will be considered. In such instances, the prime shall clearly identify the limits of responsibility for each team subcontractor. Failure on the part of the prime contractor to utilize the proposed "team" member in the accomplishment of the effort may result in a Government decision to resolicit the requirement.

4. In the event that the use of a Joint Venture is proposed, wherein the joint venture partners will accomplish significant portions of a clearly identifiable scope of work on a consistent basis, or on a consistent overflow basis, clearly identify the limits of responsibility for each joint venture partner. Failure on the part of the joint venture to utilize the proposed partner in the accomplishment of the effort may result in a Government decision to resolicit the requirement. Also, see Section H, Paragraph H17; and submit evidence as required in the paragraph. The evidence and documents should be attached in Part 1, Subpart 5, "Joint Venture Agreements," as described below in paragraph B.5.

5. Format Instructions, Volume I, Technical Proposal.

(a) Volume I, Part 1, shall contain a Cover Page, Table of Contents, List of Tables, List of Figures, and Joint Venture Agreements (see Paragraph B.4, above). Volume 1, Part 2, shall contain the text of four subparts: technical understanding factors; corporate experience/past performance factors; management factors; and resources factors. Volume 1, Part 3, shall contain Appendixes A through I.

(b) The text of Part 2, Subparts 1 through 4, shall be limited to no more than 100 pages. Pages submitted beyond these limits will not be considered in the evaluation. ***The proposal and alternate proposal for the Sample Project shall be attached as Appendix A and Appendix B, respectively. The proposal and alternate proposal for the Program Management Office shall be attached as Appendix D and Appendix E, respectively.***

(c) Part 3, Appendix A (proposed approach to the Sample Project), shall be limited to no more than 25 pages. ***Appendix B (alternate proposal for the Sample Project) shall also be limited to 25 pages. Appendix D (proposed approach toward the establishment of a Program Management Office and organization) shall be limited to 15 pages. Appendix E (alternate approach toward the establishment of a Program Management Office) shall also be limited to 15 pages.*** Appendix F (Subcontracting Plan(s)) shall be prepared on the form provided in Section J, Attachment JC.9. Appendix G (description and examples of your proposed CMS system) shall be limited to 10 pages. Pages submitted beyond these limits will not be considered in the evaluation.

(d) There will be no page limits for Appendixes C, I, and J of Part 3. However, they shall consist of completed forms or examples without lengthy text more appropriately included in the main proposal.

6. The contents of the technical proposal shall be formatted as follows:

PART 1

- Subpart 1: Cover Page
- Subpart 2: Table of Contents
- Subpart 3: List of Tables
- Subpart 4: List of Figures
- Subpart 5: Joint Venture Agreements

PART 2 (Text of Subparts 1-4, 100 page limit overall)

- Subpart 1: Technical Understanding Factors
- Subpart 2: Corporate Experience/Past Performance Factors
- Subpart 3: Management Factors
- Subpart 4: Resources Factors

PART 3 (Appendixes to be completed and attached)

- Appendix A: Offeror's proposed technical approach to the Sample Project,
25 page limit
(See Paragraph C., Subpart 1, (e.), below.)
- Appendix B: ***Offeror's alternate proposed technical approach to the
Sample Project, 25 page limit
(See Paragraph C., Subpart 1, (f), below.)***
- Appendix C: ***Summary, Company Experience Forms, (JL.3-1, JL.3-2)
Company Experience Form (JL.4)
(See Paragraph C., Subpart 2, (b) and (c), below.)
Company HW Disposal Experience Summary Forms
(JL.3-3, JL.3-4)
(See Paragraph C., Subpart 2, (a)(13), below.)***
- Appendix D: Offeror's proposed approach to establishment of a Program
Management Office and organization, 15 page limit
(See Paragraph C., Subpart 3, (b), below.)
- Appendix E: ***Offeror's alternate proposed approach to establishment of
a Program Management Office and organization,
15 page limit (See Paragraph C., Subpart 3, (c), below.)***
- Appendix F: Subcontracting ***Plan(s)***
17 page limit ***with maximum 2-page attachment***
(See Paragraph C., Subpart 3, (e) (1), below.)
- Appendix G: Contract Management System, Description and Examples,
10 page limit
(See Paragraph C., Subpart 3, (d), below.)
- Appendix H: Corporate Personnel Policies
(See Paragraph C., Subpart 3, (i), below.)

Appendix I: Summary, Key Personnel Experience Forms, (JL.5-1, JL.5-2, JL.5-3)
(See Paragraph C., Subpart 4, (a), below.)

Appendix J: Personnel Experience Form (Resumes), (JL.6)
(See Paragraph C., Subpart 4, (d), below.)
Position Descriptions of "Other Personnel"
(See Paragraph C., Subpart 4, (e), below.)

C. Part 2 of the Technical Proposal shall contain the following evaluation factors:

1. Subpart 1. Technical Understanding Factors: Each of the areas set forth below shall be addressed in order to demonstrate your understanding and technical approach to the work to be performed under this contract.

(a) Demonstrate your overall understanding of UXO clearance technology and science. Address the following:

(1) Your familiarity with and understanding of various available UXO detection equipment and technologies that can consistently and reliably detect UXO to depths of greater than four feet which would be the best candidates for use on Kaho'olawe Island Reserve.

(2) Your familiarity with and understanding of UXO detection equipment and technologies that can consistently and reliably detect UXO to depths of up to four feet which would be the best candidates for use on Kaho'olawe Island Reserve.

(3) Identify the UXO detection equipment and technology that you will use to perform the Kaho'olawe UXO clearance work, reliably and consistently to depths up to four feet, and greater than four feet, including capabilities, limitations, and statistical implications. Describe the decision making process which you have utilized in choosing this UXO detection equipment and technology.

(b) Demonstrate your overall understanding of the technical and regulatory requirements that you must meet that will allow you to successfully utilize your chosen UXO detection equipment, technologies, and clearance techniques on Kaho'olawe.

(c) Demonstrate your overall understanding of the technical and regulatory requirements and parameters that you must meet to perform all tasks identified in the RFP, Section C, "Description/Specs/Work Statement," except for UXO clearance (which is addressed in subparagraphs (a) and (b) above). Describe your knowledge of federal, state, local, and Kaho'olawe Island Reserve Commission (KIRC) rules and regulatory requirements governing all operations in Hawaii as they relate to the required

work on Kaho'olawe. Discuss your experience in dealing with Clean Air Act (CAA) requirements, Clean Water Act (CWA) requirements, waste reduction requirements, resource recycling, energy conservation, and efficient use of energy requirements, and identify what measures you will implement in your Kaho'olawe work to assure compliance with these requirements.

(d) Demonstrate your overall understanding of cost-effective logistics requirements necessary to support all work on Kaho'olawe; identify unique logistics issues and your approach to resolving them.

(e) Provide a technical proposal that includes your methods and plans to accomplish the work specified in the Sample Project as described in Attachment JL.2. Attach your proposal as Appendix A of Volume I, Part 3. (Note: Do not attach cost information. The cost proposal for the sample project shall be included in Volume II, Part 3, Subpart 1.)

(1) The sample project is representative of the work to be performed under this contract. It is based on projects that may be issued under the contract, but which have been altered for purposes of evaluating technical and cost proposals. The intent is to provide an opportunity for proposers to demonstrate their technical understanding and approach in relation to work that is characteristic of the contract. The sample project shall be proposed in accordance with the RFP, Section C, "Description/Specs/Work Statement," and shall be consistent with statements made elsewhere in your proposal concerning your technical understanding, management expertise, corporate experience/past performance, and personnel resources. The Sample Project shall also be proposed in accordance with paragraph B.5(c) above.

(2) Proposers should make reasonable assumptions based on their understanding of the project and the use and capabilities of their chosen UXO clearance equipment, techniques, and technologies. All assumptions shall be documented and justified in the proposal.

(f) ***Provide an alternate technical proposal to accomplish the work specified in the Sample Project, attach your proposal as Appendix B, in Volume I, Part 3.*** (Note: Do not include a detailed cost estimate for the recommended changes; however, in Volume II, Part 3, provide a cost benefit analysis outlining the effect of your recommended changes.) Describe any changes in the Sample Project, including the contract specifications, that you would propose which would still permit accomplishment of the general intention of the Sample Project, but in a more beneficial and/or cost effective manner. The alternate technical proposal shall be consistent with statements made elsewhere in your proposal concerning your technical understanding, corporate experience/past performance, management expertise, and personnel resources.

(1) Proposers are strongly encouraged to use creativity in their approach. Innovative ideas and methods should be identified and underlying assumptions clearly set forth. Provide justification and discuss the benefits associated with changing any aspect of the work.

(2) The proposer agrees that any ideas submitted in the alternate proposal become the property of the Government, and can be used in the accomplishment of further work or planning under this contract, or other Government contracts, whether or not the contract has been awarded to the proposer.

2. Subpart 2. Corporate Experience / Past Performance Factors:

(a) Describe your company's experience and relevant past performance within the past five years as they relate to the tasks listed below. Separately identify the contribution and experience of the Prime Contractor and each Team Member, and for each of the partners in a Joint Venture. This shall be in sufficient detail to permit the Government to conduct a performance risk assessment based upon your current and past record of performance.

(1) Establishment and management of range/operations control, and execution of explosive and operational safety programs as applied to UXO clearance operations. Adherence to safety instructions, policies, procedures, and guidelines. Include safety record, show number of manhours worked for each project and the number and nature of lost-time accidents incurred on each;

(2) Involvement and familiarity with field and emerging technologies in UXO detection and clearance; describe your corporate experience in the development of a strategy for the identification of new and emerging UXO technologies. Indicate how you will use your experience in the review of new technologies which may become available during the life of the contract. Provide a description of how your present review process is used for making an assessment of the cost effectiveness of a new or innovative approach.

(3) UXO detection and removal to depths up to four feet, and greater than four feet, on a consistent and reliable basis;

(4) Managing cost type contracts. Indicate dollar amounts and description of project, the number and types of problems encountered, and the effectiveness of corrective actions taken.

(5) UXO treatment, handling, and disposal;

- (6) Thermal treatment/thermal desorption/low temperature thermal stripping (UXO and non-UXO);
- (7) Work within federal, state, and local regulations pertaining to UXO clearance and environmental cleanup;
- (8) Work in a relatively isolated location with little or no infrastructure, to include mobilization, demobilization, and other logistics considerations;
- (9) Operating and maintaining a remote base camp(s) with no developed resources;
- (10) Providing professional historic preservation services in support of large and complex projects;
- (11) Performing architectural and engineering designs (civil, structural, mechanical, electrical) and associated infrastructure construction in an isolated location with no developed natural resources;
- (12) Collecting, managing and reporting field data (UXO and non UXO) including operation and upgrade of data management and electronic reporting systems;
- (13) Experience preparing hazardous waste disposal plans, hazardous waste manifests and other necessary documents to transport and dispose of hazardous waste off-site, including experience in successfully transporting and disposing hazardous waste off-site. ***Indicate the status of the Hazardous Waste Contractor for this project, i.e., Prime Contractor, Team Subcontractor, Joint Venture Partner, or Subcontractor. In addition, complete Attachments JL.3-3 and JL.3-4 entitled, "Company HW Disposal Experience Summary", Parts I and II, respectively provided in Section J and attach to Volume I of your Proposal, Part 3, Appendix C.***

(b) Provide a summary of your corporate experience and past performance for all Prime and Team Subcontractors or Joint Venture partners on the forms provided in Section J., **Attachment JL.3-1 and JL.3-2**. Include the following information in the summary table:

- (1) Project name and location;
- (2) Ordnance removal method;
- (3) Type of ordnance removed;
- (4) Quantity of ordnance removed;
- (5) Major issues during clearance;
- (6) Existing concentration prior to clearance;
- (7) Ordnance concentration after clearance;
- (8) Scheduled/actual project duration (start and completion dates);
- (9) Total projected cost (negotiated/actual)
- (10) Company portion of the total cost (negotiated/actual)
- (11) Key management and technical personnel;
- (12) Status: Prime (P), Subcontractor (S), or Joint Venture Partner (JV);
- (13) Client reference (Owner, point of contact, address, phone number).

(c) Offerors shall also provide a Company Experience Form, using the format in Section J, Attachment JL.4, for each project submitted as experience on Attachment JL.3. ***Team members having no experience with UXO removal should describe their company experience on other projects using the format in Section J, Attachment JL.4. These projects should similarly relate to the type of work expected to be performed on this contract.*** When assessing performance risk, the Government will focus its inquiry into the offeror's record of performance as it relates to the solicitation requirements. When discussing your company's experience in the text, briefly describe the circumstances surrounding any of the following as they apply to the projects submitted:

- (1) The scope of the work and its complexity;
- (2) Tasks completed appreciably ahead of schedule;
- (3) Realization of substantial cost savings;
- (4) Explanation of any problems encountered, including cost growth or delays, and corrective actions taken;
- (5) Efforts in coordinating with regulatory agencies;
- (6) Differentiate subcontracting from "in-house" performance;
- (7) Projects undertaken using various UXO clearance equipment, techniques, and technologies; and
- (8) Technical reports written.

3. Subpart 3. Management Factors: Address each of the following areas in order to demonstrate your overall management approach.

(a) Furnish your contract accomplishment strategy as follows:

(1) Provide your plan for support of operations at all sites. Delineate those functions which will be subcontracted and identify major subcontractors by assigned functions. Demonstrate your ability to concurrently plan, accomplish, monitor and control numerous, diverse, technically complicated projects of varying costs and schedule requirements.

(2) Furnish your task management plan, including methods for determining labor requirements and the level and amount of supervision required on individual tasks, your plan for maintaining internal and external communication, methods for applying quality assurance to individual tasks, and approach for resolving problems on tasks.

(3) Describe your Health and Safety program (as required by 29 CFR 1910.120, 29 CFR 1910.1200, 29 CFR 1926, the Army Corps of Engineers Safety and Health Requirements Manual EM385-1-1, and the RFP, Section C, "Description/Specs/Work Statement"). Address how your company enforces the requirements.

(4) Describe your Quality Control program and discuss how your company will comply with the requirements of the RFP, Section C, "Description/Specs/Work Statement."

(5) Describe how you plan to deal with any Organizational Conflict of Interest, especially with regard to contracts held or performed with other Department of Defense, Federal, or State agencies, or regulatory bodies.

(b) Provide a proposal which describes your overall approach to the establishment of a Program Management Office (PMO) and organization. Attach your proposal as Appendix D, in Volume I, Part 3. (Note: Do not attach cost information. The cost proposal for your program management office and organization shall be included in Volume II, Part 4, Subpart 1. Do not include your CMS as part of your PMO proposal. Your CMS proposal shall be included as Appendix F as discussed in paragraph (d), below.) Your PMO proposal shall be for the base year only, and shall separate recurring and non-recurring effort. The proposal shall be in accordance with the requirements outlined in Section C, "Descriptions/Specs/Work Statement," and be consistent with statements made elsewhere in your proposal concerning your technical understanding, corporate experience, management expertise, and personnel resources. Your proposal shall provide an organization plan to include the following:

(1) The location of corporate headquarters, regional office(s), and other office(s). Indicate how your key management personnel will maintain close liaison with the Contracting Officer and Contracting Officer's Technical Representative (COTR), and where the key management personnel will be located.

(2) A description and rationale of the overall proposed project organization, including subcontractors. Provide appropriate organization charts. Indicate to what extent your firm has worked with the proposed subcontractors in the past. Include a staffing plan with the names and positions of management personnel assigned to program management functions. Describe how the proposed project organization will interact with your home office organization. Identify sources of administrative support. **Discuss any differences in the proposed organizational structure for the base year which may occur in the option years. No costs should be proposed for the option years.**

(3) The level and type of personnel who will interact with the COTR. (The COTR will be responsible for the technical management of the entire proposed contract.) Additionally, indicate level and type of personnel who will interact with the Government Project Design Engineer (PDE). (The PDE will be responsible for the technical overviews of an individual task order.)

(4) Describe the depth and size of your organization, indicating the extent to which your Home Office or Branch Office regular employees will be used to support this project. Provide this data in summary form, indicating number of personnel by category, such as Cost Engineers, Planning and Scheduling Engineers, Procurement Personnel, and Contract Administrators.

(c) Provide an alternate proposal which describes your overall approach to the establishment of a Program Management Office (PMO) and organization, attach your alternate proposal as Appendix E, in Volume I, Part 3. (Note: Do not include a detailed cost estimate for the proposed changes; however, in Volume II, Part 4, Subpart 2, provide a cost benefit analysis outlining the effect of your recommended changes.) Your alternate proposal should meet the general intent of such an office and organization; however, you are strongly encouraged to use an innovative approach in your proposed establishment of a management organization, its staffing plan, size, and location. **Your alternate proposal shall be for the base year only. Discuss any differences in the proposed organizational structure for the base year which may occur in the option years. No costs should be proposed for the option years.**

(1) In your alternate plan, describe how communication and liaison will be maintained; how subcontractor effort will be managed, and the extent and manner of involvement with your corporate offices and/or other offices. Your underlying assumptions should be clearly identified. Provide justification and rationale for changing any aspects of the work as described in Section C, "Description/Spec/Work Statement". The proposal should be consistent with statements made elsewhere in your proposal concerning your technical understanding, corporate experience/past performance, management expertise, and personnel resources.

(2) The proposer agrees that any ideas submitted in the alternate proposal become the property of the Government, and can be used in the accomplishment of further work or planning under this contract, or other Government contracts, whether or not the contract has been awarded to the proposer.

(d) Provide information regarding your proposed Contract Management System (CMS). Your description shall be in accordance with Section C, "Descriptions/Specs/Work Statement", and be consistent with statements made elsewhere in your proposal concerning your technical understanding, management expertise, corporate experience, and personnel resources. Attach your proposal as Appendix G, in Volume I, Part 3. Include the following information:

(1) Description of your CMS capabilities regarding the accumulation and use of data, specifically for tasks such as planning and scheduling, variance analysis, cost estimating, budgeting and budget variance reporting, accounting reports, technical reports, required submittals and other relevant reports. From a recent project, provide brief examples of reports generated through your CMS such as a network diagram, a cost/schedule report, variance report, cost estimate, QC Report, etc.

(2) Software, type, and minimum hardware capability requirements. The CMS shall have the ability to download and extract data from the KIGIS.

(3) Name of company that produces the software.

(e) Using the format at Attachment JC.9, "Subcontracting Plan," furnish your proposed subcontracting approach, indicating how required levels of expertise will be maintained while developing opportunities for participation of small and small disadvantaged businesses. Subcontracting Plan(s) shall also be required from all joint venture partners or team subcontractors that are large business concerns. Attach your Subcontracting Plan(s) as Appendix F, in Volume I, Part 3.

(1) In addition, discuss in your Subcontracting **Plan(s)** how you intend to provide a preference for small and small disadvantaged businesses located in the State of Hawaii in the award of subcontracts. Include the types of business opportunities available and how your allocation of prime and subcontract effort to businesses located in the State of Hawaii will contribute to the overall success of the project. Indicate the value of the work to be awarded to these firms and whether or not firm commitments have been established. Identify any outreach efforts taken and/or planned. **Attach this information (maximum of two pages) at the end of the 17-page Subcontracting Plan(s).**

(2) Provide information on prior performance in complying with requirements of FAR 52.219-8 Utilization of Small, Small Disadvantaged Business, and Women-Owned Small Business Concerns, and 52.219-9 Small, Small Disadvantaged, and Women-Owned Small Business Subcontracting Plan; and the extent of participation of such firms in terms of the value of the total acquisition.

(f) **Describe in sufficient detail how you plan to use a Geographic Information System (GIS) to manage all graphical and non-graphical data associated with the UXO Clearance Project. Demonstrate your ability to manage the GIS on a daily basis using your company resources. Indicate how you plan to improve the technology of the GIS as new data becomes available. The Government will provide existing KIGIS data to the Contractor as a Modular GIS Environment (MGE) project file (See Section C.6.6 of the RFP). (Note: Do not include a detailed cost estimate for your proposed GIS; however, if you propose to use a GIS other than the Government-provided KIGIS, in Volume II, Part 5, provide a range of costs for any developmental work.)**

(g) **(Deleted in its entirety)**

(h) **(Deleted in its entirety)**

(i) Identify and attach a copy of your company's personnel policies and procedures. Attach as Appendix H, in Volume I, Part 3.

(j) If your property system is not approved, describe your plan to obtain approval within six months following award of the contract. Describe the system by which the Government property procured under this contract will be controlled, accounted for, maintained, and safeguarded.

(k) Provide your management plan for the provision or purchase of all equipment and material necessary for the performance of this contract.

4. Subpart 4. Resources Factors:

(a) Provide an outline of your proposed organizational structure in accordance with Section C, "Descriptions/Specs/Work Statement", paragraph 1.3, "Personnel Requirements". Your organizational structure should incorporate position titles and functional responsibilities for the personnel listed in Section C, paragraph 1.3, subparagraphs a, b, and c.

(b) Following your proposal for an organizational structure and incorporation of position titles and functional responsibilities in accordance with Section C, paragraph 1.3, you may separately propose an alternate organizational structure; innovation and creativity is encouraged. The alternate organizational structure may not involve changes to the positions, position title, personnel qualifications, and functional responsibilities of Key Personnel, Non-Key Personnel, and those positions listed in Section C, Paragraph 1.3, Subparagraph c, Other Personnel.

(c) Describe your key personnel's experience or ability to perform tasks such as UXO detection, removal, and disposal; to perform remedial actions for treating contaminants under CERCLA, RCRA, or state regulated programs; ability to administer cost type contracts; ability to implement an effective QC program; ability to perform engineering studies and designs; ability to provide health and safety oversight; ability to perform archaeological research investigation, and writing reports; and ability to perform quality control. Summarize the experience of key personnel using the forms provided in Section J., Attachments JL.5-1, JL.5-2, and JL.5-3, "Summary, Key Personnel Experience." Attach the completed forms as Appendix I, in Volume I, Part 3. Include the following information on the appropriate forms:

(1) On form JL.5-1, list each key personnel, their title, years or months experience with your firm, years or months experience with other firms, education degree(s)/specialization and the year received, and active registration/year first registered, and discipline.

(2) On form JL.5-2, for each key personnel, list project name, project description, role on project, actual project cost, actual project duration, project issues of concern, and owner name, point of contact and phone number.

(3) On form JL.5-3, specifically for those key personnel with UXO clearance experience, list the following: UXO clearance project experience sorted by type of UXO detection and removal; project name; quantity and types of UXO detected and removed; types of terrain and depths to which UXO was removed, and safety record. Briefly describe the complexity of the projects managed, and any significant accomplishments related to schedule and cost savings, and quality of work which were a direct result of their roles on the projects. Discuss experience or ability with various UXO equipment and technologies in various environmental conditions encountered. List any applicable technical documents authored by key personnel that relate to the UXO clearance addressed in Section C, "Description/Specs/Work Statement." The list shall indicate the type of document, such as reports written relating to similar UXO clearance actions.

(4) On form JL.5-3, for all other key personnel, describe experience or ability to perform remedial actions for treating contaminants under CERCLA, RCRA, or state regulated programs; the complexity of the projects managed and any significant accomplishments related to schedule and cost savings, and quality of work which were a direct result of their roles on the projects; and any applicable technical documents authored by the proposed key personnel that relate to items in Section C, "Description/Spec/Work Statement."

(d) Provide detailed resumes for all Key and Non-Key Personnel who are committed to work on this contract if it is awarded to your firm. Resumes shall be submitted in the format provided in Section J, Attachment JL.6, "Key Personnel Experience Form (Resume)." Include three client references (organization/company name, point of contact name, phone number). All resumes shall have the signature of the current or prospective employee to be assigned to this contract if it is awarded to your firm. The resumes shall indicate the employees who meet the training requirements of 29 CFR 1910.120. No more than one additional sheet of paper may be used if additional space is needed to expand on any of the items. Attach the completed forms as Appendix J, in Volume I, Part 3.

(e) Provide a copy of the position descriptions which outline functional responsibilities, and education and/or experience requirements, for the positions listed in Section C, "Descriptions/Specs/Work Statement", subparagraph 1.3.c, Other Personnel. Attach the position descriptions to Appendix J, in Volume I, Part 3, following the resumes.

(f) Furnish your staffing and recruiting plan for supporting the contract and task orders, requirement, including your past recruiting experience. Show how you will maintain the technical expertise of personnel assigned to the contract. Discuss how your staffing plan accommodates normal fluctuating workloads in order to maintain an experienced work force during periods of work build-up and decline. Provide the percentage of each labor category and labor mix that is proposed at each work location.

D. Volume II - Cost Proposal. Volume II shall contain the cost proposals including estimated costs based on the proposer's understanding of the work described in Section C, and the Sample Project described in Section J, Attachment JL.2.

1. Proposers shall submit a cost proposal for the Sample Project described in Section J, Attachment JL.2. Proposers will also submit a cost proposal for the Program Management Office (PMO) for the base year as described in Section C, "Descriptions/Specs/Work Statement." The cost proposals shall contain supporting information presented in a logical format to permit trackability. Proposers will organize their proposals to directly correspond with the Parts and Subparts as noted below:

2. To facilitate the evaluation, the cost proposals should be sufficiently detailed and complete to clearly and fully demonstrate that the proposer has a thorough understanding of the requirements and that the estimated costs are consistent relative to the technical proposal.

3. If your firm is awarded the resultant contract, the rates as proposed will be used during individual task order negotiations to establish fair and reasonable costs. The Truth in Negotiation Act (10 U.S.C. 2306a) will apply to these negotiations. The award fee rate(s) will be incorporated into the contract and applied to estimated costs negotiated for each task order.

4. Since a cost realism analysis will be conducted during evaluation, your cost proposal must be consistent with your technical proposal. For example, if you propose to use a specific technology in-house, then you must have shown the technical expertise for that technology in your technical proposal. Also, the labor rates proposed for personnel labor categories must be based on the labor rates for the same personnel proposed in the technical proposal.

5. Format Instructions, Volume II, Cost Proposal

(a) Volume II, Part 1 shall contain a Cover Page, Standard Form 1448 Proposal Cover Sheet, Table of Contents, List of Tables, and List of Figures. Part 2 shall contain the completed forms at Sections A, B, and K of the RFP. Part 3, Subpart 1 shall contain the cost proposal for the Sample Project. Part 3, Subpart 2 shall also contain the cost benefit analysis for the proposed alternative to the Sample Project. Part 4, Subpart 1 shall contain the cost proposal for the Program Management Office (PMO) for the base year. Part 4, Subpart 2 shall contain the cost benefit analysis for the proposed alternative to the establishment of the PMO. Part 5 shall contain a range of costs associated with the Geographic Information System and Part 6 shall contain Appendices A through G.

(b) Each proposal shall include a cost estimate prepared in accordance with the Hazardous, Toxic, Radioactive Waste (HTRW) Work Breakdown Structure (WBS), the completed forms from Section J, Attachments JL.7 through JL.10, and other supporting information.

(c) The text of Volume II, the Cost Proposal, is not limited to any specific number of pages. All forms shall be completed, however, do not include lengthy text on the forms that should be more appropriately included in the main proposal.

(d) It is strongly recommended that the HTRW WBS cost estimates and Cost Breakout forms for the Sample Project and PMO be submitted on a 3-1/2" diskette in the Microsoft Excel Version 5.0 format. If there is a discrepancy between the hard copy and the electronic file, the hard copy will take precedence.

6. The contents of the cost proposal shall be formatted as follows:

PART 1

- Subpart 1. Cover Page
- Subpart 2. Standard Form 1448, Proposal Cover Sheet
(see Paragraph L5)
- Subpart 3. Table of Contents
- Subpart 4. List of Tables
- Subpart 5. List of Figures

PART 2

Subpart 1. Solicitation, Offer, and Award Form (SF 33 from Section A of the RFP)

Subpart 2. Schedule for Supplies or Services (From Section B of the RFP)

Subpart 3. Representations, Certifications, and other Statements of Offerors (From Section K of the RFP)

PART 3 (No page limit)

Subpart 1. Cost Proposal, Sample Project

- (a) HTRW WBS: Propose at Level 4 for Direct Costs, Level 5 for UXO Clearance. Use Attachment JC.5 for Level 5
- (b) Completed Memorandum of Agreement, Direct Labor Rates And Maximum Award Fee. Use forms at Attachment JL.7
- (c) Indirect Rates and Ceilings Form(s). Use forms at Attachment JL.8
- (d) Cost Breakout Forms, Sample Project. Use forms at Attachment JL.10
- (e) Other Supporting Information

Subpart 2. Alternate Approach, Sample Project

- (a) Attach Cost Benefit Analysis

PART 4 (No page limit)

Subpart 1. Cost Proposal: Program Management Office (PMO), Base Year

- (a) HTRW WBS: Propose at Level 4 for Direct Costs
- (b) Completed Memorandum of Agreement, Direct Labor Rates And Maximum Award Fee. Use forms at Attachment JL.7
- (c) Indirect Rates and Ceilings Form(s). Use forms at Attachment JL.8
- (d) Cost Breakout Form(s), PMO. Use forms at Attachment JL.10
- (e) Other Supporting Information

Subpart 2. **Alternate Approach, Program Management Office (PMO),
Base Year**

- (a) Attach Cost Benefit Analysis

PART 5 (No page limit)

Geographic Information System (GIS): Range of Costs

PART 6 (Appendixes to be completed and attached for the Prime Contractor and each Team Subcontractor)

Appendix A: Company Policy on Uncompensated Overtime: Summarize Company Policy on the Identification of Ratios Form, from Section J, Attachment JL.9
(See Paragraph F., Subparagraph 1, (c), below.)

Appendix B: Company Positions: Nomenclature and Descriptions
(See Paragraph F., Subparagraph 2, below.)

Appendix C: Staffing Plan
(See Paragraph F., Subparagraph 3, below.)

Appendix D: Company Policy on Vacations, Sick Leave, and Holidays
(See Paragraph F., Subparagraph 4, (c), below.)

Appendix E: Compensation Plan for Professional Employees
(See Paragraph F., Subparagraph 9, below.)

Appendix F: Current Financial Report with Supporting Data

Appendix G: Cost Accounting Standards Disclosure Statement
(See Paragraph F., Subparagraph 11, below.)

7. Definitions. Use the following definitions when completing your cost proposal.

(a) Executive Labor - All labor provided by personnel who meet the definition of an executive employee as defined in 29 CFR 541.1.

(b) Administrative Labor - All labor provided by personnel who meet the definition of an administrative employee as defined in 29 CFR 541.2.

(c) Professional Labor - All labor provided by personnel who meet the definition of a professional employee as defined in 29 CFR 541.3.

(d) Material - All products which are installed or expended at the project site which are not removed when the project is completed. Examples include items which are turned over to the Government after completion of the task such as native plants and construction materials. Items included in equipment rental rates such as fuel, oil, and other maintenance items are excluded.

(e) Equipment - All items with a value of \$1,000 or more which are used to complete the project but are not expended on the project. Examples include excavation equipment, treatment systems which are removed from the project upon completion of the task order, and temporary offices.

(f) Technical Team Member - Any subcontractor that is included in the technical proposal whose capabilities will be evaluated along with the prime contractor.

(g) Joint Venture - As defined in FAR 19.101(g)(1), "A joint venture for size determination purposes is an association of persons and/or concerns with interests in any degree or proportion by way of contract, express or implied, consorting to engage in and carry out a single specific business venture for joint profit, for which purpose they combine their efforts, property, money, skill, or knowledge, but not on a continuing or permanent basis for conducting business generally. A joint venture is viewed as a business entity in determining power to control its management."

(h) Contractor Team Arrangement - As defined in FAR 9.601, "'Contractor team arrangement' means an arrangement in which --

(a) Two or more companies form a partnership or joint venture to act as a potential prime contractor; or

(b) A potential prime contractor agrees with one or more other companies to have them act as its subcontractors under a specified Government contract or acquisition program."

8. Hazardous, Toxic, Radioactive Waste (HTRW) Work Breakdown Structure (WBS) Instructions:

(a) The cost proposal for the Sample Project and the PMO for the Base Year shall include a cost breakdown of direct costs in accordance with the HTRW WBS. Provide a summary of first level (Account Number) direct costs, second level (System) direct costs, third level (Subsystem) direct costs, fourth level (Assembly Category) direct costs, and a detailed cost breakdown of fifth level (UXO Clearance) direct costs using the appropriate task account numbers. The fifth level is unique to this contract and is provided at Section J, Attachment JC.5.

(b) Costs shall be presented in a manner that will enable the Government to conduct a thorough, comprehensive, and detailed evaluation. Each task shall be broken down into the following elements:

- (1) **QUANTITY.** Indicate quantity for the line item, relating to the corresponding unit of measure.
- (2) **UNIT OF MEASURE.** Indicate unit of measure, relating to the corresponding rate. The units may vary between WBS levels.
- (3) **RATE.** Indicate hourly rates for direct labor as listed in Attachments JL.7 and JL.10, equipment rates, or cost per unit of measure for other direct costs, as appropriate.
- (4) **DIRECT LABOR.** Itemize level of effort for each labor category proposed for the task, as identified in Attachments JL.7 and JL.10. Do not include fringes.
- (5) **EQUIPMENT.** Itemize each type of equipment proposed for the task.
- (6) **MATERIAL.** Itemize each type of material proposed for the task.
- (7) **SUBCONTRACT.** Itemize individual subcontracts proposed for the task.
- (8) **OTHER DIRECT COSTS (ODCs).** Itemize all ODCs proposed for the task.

(c) ***Note that travel requirements should be included under the appropriate WBS task numbers for Travel and Per Diem.*** Each travel requirement should be itemized showing the rate and quantity. Itemize Per Diem and Airfare/Local Transportation separately under each travel requirement.

E. Contents of Cost Proposal:

1. **PART 1 (Self explanatory)**
2. **PART 2 (Self explanatory)**

3. PART 3

(a) **Subpart 1. Cost Proposal, Sample Project:** In order to provide a consistent method of evaluating cost proposals, the Government has included a Sample Project described in the RFP at Section J, Attachment JL.2, for use in completing the forms at Section J, Attachments JL.7 through JL.10. The proposals shall be based upon the Sample Project Write Up at Attachment JL.2 and Section C, "Description/Specs/Work Statement," and be consistent with the methodologies proposed in the technical proposal.

(1) Proposers are required to provide estimated costs to include projected labor hours, hourly rates, other direct costs, subcontracts, materials, and equipment, indirect rates, and the applicable award fee percentages/costs.

(2) Proposers are also required to provide a summary and detailed cost breakdown of direct costs organized in accordance with the HTRW WBS format. In particular, the detailed breakdown of direct costs should be prepared up to Level Four and Level Five (for UXO Clearance) of the HTRW WBS (Attachment JC.5). Based on this information, calculate the total estimated cost for completing each task. Total projected costs will be used to determine how cost competitive each company is relative to other proposers. The basis for the cost estimate shall be provided as part of the supporting information required for Volume II.

(3) In addition, the Sample Project cost proposal breakdown of direct cost by HTRW WBS should be separately identified by costs associated with UXO Clearance, Base Camp and Temporary Roadway Improvements. A summary of indirect and direct costs for each of the services identified above should also be provided.

(b) **Subpart 2. Alternate Approach, Sample Project:** Note: DO NOT include a detailed cost estimate for your alternate approach to the Sample Project. ***Provide a cost benefit analysis for the proposed alternate approach to the Sample Project outlining the effect of your recommended changes.***

4. PART 4

(a) **Subpart 1. Cost Proposal, Program Management Office (PMO) Base Year:** In response to the Government's requirement for a PMO and Organization Plan described in the RFP, Section C, and Paragraph C., Subpart 3, paragraph (b), above, proposers are required to submit a cost proposal consistent with the methodologies proposed in the technical proposal.

(1) Proposers are required to provide estimated costs to include projected labor hours, hourly rates, other direct costs, subcontracts, materials, and equipment, indirect rates, and applicable award fee percentage/costs.

(2) Complete the forms provided at Section J, Attachments JL.7 through JL.10.

(3) Proposers are also required to provide a summary and detailed cost breakdown of direct costs organized in accordance with the HTRW WBS format. In particular, the detailed breakdown of direct costs should be prepared up to Level Four of the HTRW WBS. Based on this information, calculate the total estimated cost for completing each task. Total projected costs will be used to determine how cost competitive each company is relative to other proposers. The basis for the cost estimate shall be provided as part of the supporting information required for Volume II.

(b) Subpart 2. Alternate Approach, Program Management Office (PMO)

Base Year: Note: DO NOT include a detailed cost estimate for your alternate approach to the establishment of a PMO. ***Provide a cost benefit analysis for the proposed alternate approach to the PMO outlining the effect of your recommended changes.***

5. PART 5

Geographic Information System (GIS): Provide a range of costs for any developmental work if you propose to use a GIS other than the Government-provided KIGIS. The range shall be representative of the effort proposed in Paragraph C, Subpart 3, (f), of Volume I above.

6. PART 6 (Self explanatory)

7. Mandatory Submission of Forms.

(a) The cost proposals to be completed and attached in Part 3 and Part 4 shall include the completed forms corresponding to the Sample Project and the PMO effort for the base year. The forms include the Memorandum of Agreement for Direct Labor Rates and Maximum Award Fee (Attachment JL.7); Indirect Rates and Ceilings Form (Attachment JL.8); Identification of Ratios for Base Year (Attachment JL.9); and Cost Breakout Forms (Attachment JL.10). The rates proposed on the forms at Attachments JL.7 through JL.9 should be the same if used for the Sample Project cost proposal and the PMO cost proposal. Each of the labor categories must be listed on the Cost Breakout Forms for any straight time and overtime hours estimated to be required.

(b) DO NOT CHANGE THE GOVERNMENT-PROVIDED LABOR CATEGORIES FOR KEY PERSONNEL ON ATTACHMENTS JL.7 AND JL.10.

Additional labor categories required for completing the tasks associated with either the Sample Project or the base year PMO shall be listed on the Cost Breakout Forms. Proposers must indicate the employee's status as Professional, Executive, Administrative, Service Contract Act (SCA), or Davis Bacon Act (DBA). Offerors shall use the SCA and DBA Wage Determinations at Attachments JL.11 and JL.12, respectively. Any required labor categories which are not listed on the SCA or DBA Wage Determinations may be proposed, but shall be considered to be subject to the SCA or DBA, as applicable (unless determined to be performing in a bona fide executive, administrative, or professional capacity in accordance with 29 CFR 541).

(c) Any labor categories intended to be used during contract performance which are covered under the SCA or DBA, and which are not listed in the applicable wage determination, shall be subject to conformance procedures.

(d) Proposers must note provisions set forth in the solicitation relating to maximum rates and complete the Memorandum of Agreement for Direct Labor Rates and Maximum Award Fee, Indirect Rate Projection Form, and Cost Breakout Forms, as provided in Section J, Attachments JL.7, JL.8, and JL.10, respectively. Proposers must summarize their "Company Policy on Uncompensated Overtime" (to be submitted in Part 6, Appendix A, of your Cost Proposal) on the worksheet provided in Section J, Attachment JL.9, Identification of Ratios for the Base Year.

(e) For SCA or DBA labor categories, contract ceiling rates will be established at a percentage over the minimum rates set forth in the applicable wage determinations. Enter the proposed percentage rates on the forms provided in Section J, Attachment JL.7-3.

(1) One percentage figure will apply to SCA categories and another percentage figure will apply to DBA categories. Therefore, the rates estimated on the Cost Breakout Forms must be consistent with respect to the maximum percentages proposed over the wage determination rates, i.e., all SCA categories must be proposed at a single percentage over the applicable wage determination rates and all DBA categories must be proposed at a single percentage over the applicable wage determination rates (although two different percentages may be proposed for SCA versus DBA).

(f) Proposers MUST provide justification for the percentages proposed. It is important to note that the proposed rates on the Cost Breakout Forms will be used for evaluation purposes and will also be evaluated with respect to the allowable rates shown on Attachment JL.8 and maximum rates shown on Attachments JL.7 for realism of proposed rates. A proposal containing two unrelated sets of rates, one for evaluation purposes and another for establishing maximum rates, will not be acceptable.

(g) If your proposal includes subcontracting any portion of the effort in a "team" approach, additional cost breakout and rate projection forms must be duplicated and provided for each technical team member proposal (see paragraph (h) below). It will be necessary to adjust the hours and applicable other direct costs to reflect the division of effort between the prime contractor and the subcontractor(s). Separate team subcontractor forms must be provided for each of the cost proposals associated with the Sample Project and PMO.

(h) Attach a separate sheet which breaks out the "Subcontract" total into amounts for Team Subcontractors and amounts for lower tier subcontractors with the function to be performed, such as transportation. Detailed support shall be provided showing the nature and extent of the work involved.

(i) The forms provided in Section J, entitled, Memorandum of Agreement (Attachment JL.7), Indirect Rates and Ceilings (Attachment JL.8), and Identification of Ratios (Attachment JL.9), must be completed and submitted with your proposal for the prime and each proposed team subcontractor. Proposers should note that all ceiling provisions will apply to the team subcontractors as well as to the prime contractor, and that the applicable ceiling rates set forth on Attachments JL.7 and JL.8 will be included in the contract resulting from this solicitation.

(j) Proposals must completely identify all costs that are known or should be known to the proposer so that an equitable cost evaluation can be conducted by the Government. Proposers are cautioned that failure to identify significant costs prior to award may be interpreted by the Government as an inability to control costs or a possible lack of good faith, and adverse action may be taken as a result.

F. Supporting Information for Cost Proposal. The supporting information described in the following paragraphs must be provided for each team subcontract proposal as well as for the prime proposal. Proposers are required to provide the following information in exactly the same order as it appears below:

1. Direct Labor. Proposers are required to provide the following information to support the proposed direct labor rates:

(a) The basis for each proposed labor rate. If a composite labor rate is utilized or a labor rate is prorated over fiscal years, provide the specific details and calculations used to determine the rate.

(b) Provide current company wide average rates for each labor category.

(c) Company Policy on Uncompensated Overtime. If uncompensated overtime is proposed for Fair Labor Standards Act exempt employees, provide the required information on the form from at Section J, Attachment JL.9 (Identification of Ratios) for each affected labor category. Submit this form with your company policy as Appendix A in Volume II. In addition, provide the historical company wide percentage of uncompensated overtime and historical number of hours in excess of 40 hours per week for each labor category. The proposal shall include evidence of the Defense Contract Audit Agency or Defense Contract Management Area Office approval of the corporate policy addressing uncompensated effort.

2. Labor Category Titles. It is recognized that some of the labor category titles used in the cost forms may not exactly match the titles normally used in a particular company operation. Accordingly, in order to permit a rapid comparison, provide the following as Appendix B in Volume II:

(a) Proposer's normally used nomenclature for each labor category identified in the cost breakout forms.

(b) Copy of the proposer's own position descriptions for each labor category proposed (including categories provided by the Government and categories unique to each proposal).

3. Staffing Plan. ***Provide a staffing plan consistent with your technical proposal indicating which labor categories will normally charge their time under indirect costs, which indirect cost burden their time is allocated to; and which labor categories will normally charge time as a direct cost.*** The staffing plan shall be submitted as Appendix C of Volume II.

4. Overhead & Fringe Benefits (Burden). It is anticipated that the estimated cost for the proposed contract may be computed on the basis of burdened rates established specifically for this operation. In view of the nature of the work, the direct labor may not be subjected to indirect costs of the same magnitude as that performed within a company's facility, or at other locations. The burdened rate(s) established should contain all provisions for payroll taxes, compensation, unemployment insurance, and/or related fringe benefits; holiday, vacation, and sick leave pay; and all other indirect costs, other than G&A expense related to the performance of the work. In computing your proposed rate(s), consideration should be given to projected increases in payroll taxes and related payroll burdens. Provide the following information in your cost proposals:

(a) Identify the basis for proposed rate(s), i.e., a company wide average rate or specifically developed for this contract, with supporting rationale.

(b) Identify cost elements comprising the proposed rate(s).

(c) Provide your Company Policy on Vacations, Sick Leave and Holidays as Appendix D of Volume II. Furnish an explanation of your company policy on the accumulation of costs for vacations, sick leave and holidays, which must be both feasible and reasonable.

(d) Identify whether or not bonuses are given to employees, and if so, where such costs are included in your accounting system as reviewed and approved by the cognizant Defense Contract Audit Agency.

(e) Compare proposed rate(s) with the rate(s) experienced during the three most recently completed fiscal or calendar years and with the current book rate experience. Costs shown must be actual experienced costs, not budgeted or billing rates.

(f) State whether the company anticipates any appreciable change in the business volume, other than the effect of the proposed contract, which would materially affect the burden rate(s).

(g) Provide information as to how the rate compares with that applicable to other company operations.

5. Travel and Other Direct Costs. Include any costs which will be directly charged in accordance with your approved accounting system. All such costs must be identified on the mandatory cost breakout forms. Conditions regarding Contractor travel are described in the RFP, Section G, paragraph G20. Costs proposed must be consistent with your cost accounting practices so that they can be identified and evaluated. Provide supporting documentation/rationale for the direct costs proposed.

6. General and Administrative (G&A) Expenses. Due to the nature of the proposed work, your company may elect to establish a unique G&A expense pool for allocation of costs to the proposed contract. Provide the following information in your cost proposal:

(a) Identify the basis for the proposed rate, i.e., a company wide average rate or specifically developed for this contract, with supporting rationale.

(b) Identify cost elements comprising the proposed rate.

(c) Compare the proposed rate with the rate experienced during the three most recently completed fiscal or calendar years and with the current book rate experience. Costs shown must be actual experienced costs, not budgeted or billing rates.

(d) State whether the company anticipates any appreciable change in the business volume, other than the effect of the proposed contract, which would materially affect the G&A rate.

(e) Provide information as to how the rate compares with that applicable to other company operations.

7. Facilities Capital Cost of Money. If Facilities Capital Cost of Money is proposed, Form CASB-CMF must be provided with the proposal for the Base Year and Option Years One through Seven.

8. Hawaii's General Excise Tax. Hawaii's General Excise Tax rate is 4.166%. In accordance with Chapter 237 of the Hawaii Revised Statutes, Section 237-13(3)(A), the General Excise Tax (GET) applies to the "gross income" to include gross receipts received as compensation, including fees.

9. Compensation Plan for Professional Employees. Provide a total compensation plan in accordance with FAR 52.222-46 setting forth salaries and fringe benefits proposed for the professional employees who will work under the contract. The Compensation Plan should be submitted as Appendix E of Volume II.

10. Accounting System, Billing System, and Estimating System. State whether or not your company's accounting system, billing system, and estimating system have been subjected to review and if so, the date of the last review, by whom, and whether or not they have been approved.

(a) Describe the cost accounting system and practices of your company. Identify the basis for sharing indirect and direct costs to specific projects.

11. Cost Accounting Standards Disclosure Statement. Submit a Cost Accounting Standards Disclosure Statement in accordance with FAR 52.230-1 which is incorporated in Section K of the RFP. The Disclosure Statement shall be included as Appendix G of Volume II.

12. Purchasing System. Approval of the Prime Contractor's purchasing system will be required in accordance with FAR Subpart 44.3. State whether or not your company's purchasing system has been subjected to review and if so, the date of the last review and whether or not approval has been granted.

(a) If your purchasing system is not approved, describe your plan to obtain approval within six months following award of the contract. Describe the system by which subcontractors, vendors, and consultants are presently procured. Specify procedures for procurement of equipment, materials, supplies, and services.

13. Property System. Approval of the Prime Contractor's property system will be required in accordance with FAR Subpart 45.1. State whether or not your company's property system has been subjected to review and if so, the date of the last review, by whom, and whether or not approval has been granted.

SECTION M
(REPLACED IN ITS ENTIRETY)

Enclosure (5) of
Amendment No. 0004

**SECTION M
EVALUATION FACTORS FOR AWARD**

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SECTION M
EVALUATION FACTORS FOR AWARD

M1 PREAWARD SURVEY

The Government may conduct a preaward survey of the proposals to determine whether such offerors are qualified and capable of performing the contract. The preaward survey will involve examination of the offeror's financial and technical status and understanding of the contract requirements. In accordance with FAR Subpart 9.1, offerors may be asked to provide information that will enable the Contracting Officer to make an affirmative determination of responsibility. The types of information requested will be associated with the standards set forth in FAR 9.104-1. Requested information shall be forwarded within three days of request. Failure to provide the requested information may result in rejection of the proposal.

M2 BASIS FOR AWARD

A. The successful offeror, for purposes of award, shall be the conforming, responsible offeror proposing a technically acceptable proposal and the best value to the Government.

B. Offers shall be submitted for the performance of work for the period identified in the "Term of Contract" clause in paragraph F3 of Section F.

C. Offers are solicited on an "all or none" basis and FAR 52.215-16, "CONTRACT AWARD - ALTERNATE II (OCT 1995)" as noted in Section L, **paragraph L-4**, is hereby modified. Failure to submit offers for all of the work described shall be cause for rejection of the offer.

M3 FAR 52.217.5 EVALUATION OF OPTIONS (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

M4 SOURCE SELECTION

Source selection procedures will be enable the Government to ensure selection of the source whose proposal has the highest degree of realism and whose performance is expected to best meet the requirements shown in Section C of this solicitation.

The best value method of source selection will be used to evaluate offers. The contract resulting from this solicitation will be awarded to the responsible offeror whose proposal, conforming to the solicitation is determined to have the greatest value to the Government considering both technical and cost factors. The evaluation will be based upon the technical and cost information submitted by the proposer in response to each of the areas provided in Section L, paragraph L17, entitled "Submission of Proposals".

M5 BEST VALUE EVALUATION

A. Award of this solicitation will be to the proposer who offers the best value to the Government considering technical and cost factors listed below. The offeror's proposal shall be in the form prescribed by this solicitation and shall contain a response to each of the areas identified in Section L, paragraph L17, which affects the evaluation factors for award.

B. Evaluation Factors:

Responses to the Request for Proposal will be evaluated based on (1) technical factors, and (2) cost factors.

1. Technical Factors. The offeror's technical proposal will be evaluated to determine whether the offeror possesses the capability required to successfully perform the requirements included in Section C of the solicitation. The technical factors are listed below and are of equal importance:

- (a) Technical Understanding
- (b) Corporate Experience/Past Performance
- (c) Management
- (d) Resources

2. Cost Factors. The costs will be evaluated to determine reasonableness and realism of the proposals. Proposed costs may be adjusted, for purposes of evaluation only, in order to conduct a cost realism evaluation.

C. The technical evaluation factors combined are considered significantly more important than cost; however, the importance of cost will increase if two or more technical proposals are nearly equal in value. The proposals will be rated and ranked based on the evaluation factors and subfactors listed below. Excessive wordiness may detract from the value assigned to a proposal.

D. Proposals which are unrealistic in terms of technical or schedule commitments or unrealistically high or low in cost may be deemed reflective of an inherent lack of technical competence, or indicative of a failure to comprehend the complexity and risks of the proposed work.

E. The factors and subfactors are listed below:

TECHNICAL PROPOSAL

1. Technical Understanding. The following subfactors are listed in descending order of importance:

(a) Level of understanding and technical feasibility of the Contractor's proposed approach to accomplish the Unexploded Ordnance (UXO) work specified in Section C, Description/Specifications/Work Statement.

(b) Level of understanding of technical and regulatory requirements to perform UXO clearance actions on the Kaho'olawe Island Reserve.

(c) Level of understanding of all technical and regulatory requirements to successfully accomplish all of the work stated in Section C, with the exception of UXO clearance work which is addressed in paragraph b above. Level of understanding of federal, state, local, and Kaho'olawe Island Reserve Commission (KIRC) rules. Feasibility of implementation measures to assure the requirements of the Clean Air Act, Clean Water Act, waste reduction, resource recycling, energy conservation, and efficient use of energy are met. Level of understanding of special logistics requirements and the feasibility of the approach in handling and managing the logistics to accomplish all work on Kaho'olawe.

(d) Sample Project: Level of understanding, feasibility of approach, demonstration of innovative and cost-effective methods, and plan for meeting all communication, reporting and deliverable requirements.

(e) Sample Project, Alternate Approach: Innovativeness, feasibility of proposed approach, clearly identified underlying assumptions, demonstrated savings as documented in the cost benefit analysis, understanding of interrelatedness of requirements, and appropriateness of recommendations for changes in the Sample Project, including the contract specifications.

2. Corporate Experience/Past Performance. The Contractor will be evaluated on their corporate experience and past performance in remote locations as it relates to the following subfactors. The subfactors will be measured by such indicators as quality, timeliness, cost, schedule, and operational effectiveness. The number and severity of an offeror's problems, the effectiveness of corrective actions taken, and the relevance of past performance information will also be considered. Firms lacking relevant past performance history shall receive a neutral evaluation for past performance. The following subfactors are listed in descending order of importance (except that subfactor (a) is equivalent in importance to subfactors (b) through (h) combined):

(a) UXO-related detection and clearance as listed in descending order of importance:

(1) Searching, detecting, identifying, and removing surface and subsurface UXO and UXO related materials to depths up to four feet, and greater than four feet.

(2) Establishment and management of range operations/control and related UXO clearance operational safety programs.

(3) Transportation of UXO, demolitions materials and explosives.

(4) Explosives storage operations.

(5) UXO treatment/handling/disposal. **Work within federal, state, and local regulations pertaining to UXO clearance. Included is thermal treatment/thermal desorption/low temperature thermal stripping of UXO residue from UXO and non-UXO items.**

(b) Adherence to UXO safety requirements/regulations, and overall safety record. **Include the experience and safety records of all UXO and non-UXO firms on UXO projects. Include the experience and safety records of all non-UXO firms on non-UXO projects.**

(c) Management of cost type contracts and effectiveness in dealing with any technical and/or management problems encountered.

(d) **Work within federal, state, and local regulations pertaining to environmental cleanup.** Preparation of hazardous waste disposal plans, hazardous waste manifests and other necessary documents to transport and dispose hazardous waste off-site, as well as transporting and disposing hazardous waste off-site, including sampling and testing, remediation of hazardous waste, hazardous material and other contaminated materials.

(e) Operating and maintaining base services, or facilities operations in a remote location.

(f) Providing historic preservation, and engineering and construction services in remote locations.

(g) Providing specialized engineering and technical competence in preparing plans, and specifications. Also, competence in geographic information systems, data management, **(to include collecting, managing, operating, and reporting field data [UXO and non-UXO])**, land surveying, and compliance with environmental, medical, and historic preservation requirements.

(h) Identifying and incorporating new and emerging technologies, as well as the development and employment of cost-effective, innovative ideas and methods.

3. Management. The following subfactors (a) and (b) are equal in importance; subfactors (c) through (l) are in descending order of importance after subfactors (a) and (b); and each one of subfactors (a), (b), and (c) are of significantly greater importance than subfactors (d) through (l):

(a) Quality, comprehensiveness, and feasibility of contract strategy to accomplish UXO clearance operations, including task management plan; approach to health and safety, quality control program, cost control and cost minimization, work area communications, command and control plans; and strategy to effectively manage various ongoing task orders with interrelated types of work.

(b) PMO Proposal: Level of understanding of PMO requirements, level of understanding of interrelatedness of requirements, quality and reasonableness of proposed organization (including subcontracts and Home/Branch Office involvement), rationale for proposed organizational structure (including differences between base year and option years), reasonableness of staffing plan, effectiveness of levels of supervision and communication, effective corporate support, method and effectiveness of liaison between Government/Contractor staff, and approach to management of subcontracting effort.

(c) PMO Proposal, Alternate Approach: Innovativeness, feasibility of proposed alternate approach, clearly identified underlying assumptions, level of understanding of PMO requirements, level of understanding of interrelatedness of requirements, quality and reasonableness of proposed organization (including subcontracts and Home/Branch Office involvement), rationale for proposed organizational structure (including differences between base year and option years), reasonableness of staffing plan, effectiveness of levels of supervision and communication, effective corporate support, method and effectiveness of liaison between Government/Contractor staff, and approach to management of subcontracting effort, and demonstrated savings as documented in the cost benefit analysis.

(d) Thoroughness, clarity, and applicability of the interrelations between planning, scheduling, cost estimating, accounting, managing, and reporting of the proposed Contract Management System (to include financial and management systems).

(e) The extent of participation of small, small disadvantaged and women-owned small businesses as noted in your Subcontracting Plan, **Attachment JC.9**. The level of commitment will be measured by the firms specifically identified, extent of commitment to use such firms, the complexity and variety of the work small firms are to perform, and the realism of the Plan.

(1) Proposed approach to provide preference for small and small disadvantaged business concerns located in the State of Hawaii including the following: 1) feasibility of your plan, 2) available business opportunities and how the prime and subcontract effort will contribute to the successful overall performance, 3) value of work to be awarded, 4) your established commitments (if any) to small and small disadvantaged business concerns located in the State of Hawaii, and 5) the feasibility and extent of your outreach efforts.

(f) Prior performance in complying with requirements of FAR 52.219-8 Utilization of Small, Small Disadvantaged Business, and Women-Owned Small Business Concerns, and 52.219-9 Small, Small Disadvantaged, and Women-Owned Small Business Subcontracting Plan; and the extent of participation of such firms in terms of the value of the total acquisition.

(g) ***Feasibility of the Contractor's plans for the proposed GIS, level of daily management effort and data coverage, level of complexity of usage, plans to improve GIS technology, and derived benefits to the Government.***

(h) Adequacy of accounting system for cost type contracts and/or submission of an approved CAS Disclosure Statement.

(i) Adequacy of purchasing system and/or submission of an approved purchasing system.

(j) Reasonableness and completeness of personnel policies and procedures.

(k) Adequacy and/or approval of property administration system.

(l) Strategy to effectively minimize purchase of Government property.

4. Resources. The following subfactors are listed in descending order of importance:

(a) Qualifications and experience of Key Personnel, Non-Key Personnel, and Other Personnel listed in Section C, "Descriptions/Specs/Work Statement", paragraphs 1.3, (a), (b) and (c).

(b) Quality and feasibility of staffing and recruiting plan for providing sufficient qualified personnel to perform the types and volume of unexploded ordnance clearance and explosive operations actions described in Section C, "Descriptions/Specs/Work Statement".

(c) Quality, feasibility, and comprehensiveness of the alternate approach to the Contractor's organizational structure for **Key**, Non-Key and Other Personnel. Adequacy of proposed changes to the minimum personnel qualifications.

COST PROPOSAL

1. Although cost is not as important as technical, it is a significant factor.

(a) Cost Realism: In analyzing cost under this solicitation, the realism of the proposed costs will be considered. As used herein, the term "cost realism" pertains to the proposer's ability to project costs which can be reasonably expected to be incurred in the performance of a resulting contract consistent with its technical proposal, and which reasonably indicate that the proposer understands the nature and scope of the services to be performed. Proposed costs may be adjusted, for purposes of evaluation only, in order to conduct a cost realism evaluation which, at a minimum, will include an analysis of all elements detailed in Section L, paragraph L17.D. Congruence between the technical and cost proposals shall also be utilized to determine the realism of proposed costs.

(b) Cost Reasonableness: Proposed rates and the total estimated costs will be evaluated and compared with other cost proposals to determine how cost competitive each firm is relative to other proposers.

NOTE: FAR 52.222-46, "Evaluation of Compensation for Professional Employees", is applicable to this requirement. This provision states in part: "Professional compensation that is unrealistically low or not in reasonable relationship to the various job categories, since it may impair the Contractor's ability to attract and retain competent professional service employees, may be viewed as evidence of failure to comprehend the complexity of the contract requirements."

REPLACEMENT PAGES

(VARIOUS)

Enclosure (6) of
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require that prime contractors discuss their "established commitments (if any) to small and small disadvantaged business concerns located in the State of Hawaii." With respect to the need to include the requirement for an "especial" preference for Native Hawaiian-owned businesses, the Navy and the Department of Justice considered that question in connection with the Administration's on-going review of federal affirmative action programs.

Based on its review of information submitted by the Navy concerning subcontract awards to Native Hawaiian-owned firms under prior contracts, the Department of Justice believed that Native Hawaiian-owned firms would receive a fair share of subcontract awards for the current clean-up effort without a special preference. It advised the Navy that any special preference for Native Hawaiian-owned businesses would be subject to constitutional challenge under the strict scrutiny standard of Adarand Constructors, Inc. v. Peña, 115 S. Ct. 2097 (1995), and that, in light of these circumstances, the Navy need not include in future requests for performance a special preference for Native Hawaiian firms that is greater than that afforded to small disadvantaged businesses. Accordingly, the Navy did not include the special preference in the final version of the Request for Proposals.

Sincerely,



Steven S. Honigman

Copy to:
Mr. Putnam

public meetings with Government representatives.

The minimum qualifications for the PM are:

- a. Graduate of an accredited college or university.
- b. Minimum of ten years experience as a project manager.
- c. Six years of the experience shall be at the senior project engineer or senior project manager level on UXO clearance projects **is highly desirable**.

1.3.3.2 Senior Project Manager (SPM). The Senior Project Manager is responsible for directing work activities as outlined in the contract and the associated TOs for UXO clearance and related actions. Duties include but are not limited to: ensuring that elements of the SOW and the individual TOs with their inclusive project plans and specifications can be implemented within schedule and budget; recommending and justifying modifications; developing or modifying methods for tracking materials and resources; coordinating subcontractor work; and complying with health and safety procedures, the Regulatory Framework and Site Protection Plan requirements.

The minimum qualifications for the SPM are:

- a. Graduate of an accredited college or university with a degree in engineering or an appropriate related field.
- b. Minimum of six years project management experience.
- c. Three years of experience in UXO clearance or related UXO field work.

1.3.3.3 Contract Administration Manager (CAM). The Contract Administration Manager is responsible for administering and managing contract TOs for UXO clearance, construction and services. This includes, but is not limited to, ensuring compliance with applicable acquisition regulations and policy as well as the terms and conditions of the contract; maintaining an adequate purchasing system, including overseeing procurement and cost minimization by the Contractor and sub-contractors; maintaining an adequate cost estimating system, including ensuring the adequacy of proposals; tracking costs; and interfacing with Government contracts personnel regarding contractual matters.

The minimum qualifications for the CAM are:

- a. Graduate of an accredited college or university with a degree in business administration or an appropriate related field.
- b. Five (5) years direct experience in the area of Government contracting with emphasis on cost type contracts.

1.3.3.4 Project Health and Safety Manager (HSM). The Project Health and Safety Manager is responsible for: coordination and execution of all health and safety requirements and activities associated with performance of this contract; review and approval of the Site Health and Safety Plan (SHSP); activity/task risk hazard analysis; and

review and approval of any improvements to the health and safety program. The HSM conducts full safety drills on a quarterly basis (more frequently if necessary), employing carefully orchestrated casualty scenarios.

The minimum qualifications for the HSM are:

- a. Certified Safety Professional (CSP) by the Board of Certified Safety Professionals.
- b. Ten years experience in Occupational Safety and Health as demonstrated by prior assignments in general industry, UXO or construction areas covered by U.S. Department of Labor standards.
- c. Three years experience in explosive safety, and compliance with 29 CFR 1910.120 standards is desired.

1.3.3.4.1 In the event that the UXOSO or CSO is not a CSP, the HSM shall provide direct, on-island supervision and oversight to the uncertified safety staff for no less than fifty percent (50%) of the affected UXO clearance and/or construction operations.

1.3.3.5 Range Control /Operations Officer (RCO). The Range Control/Operations Officer is responsible for: scheduling, coordinating, controlling and executing all range activities, including: all UXO clearance, explosive, demolition, destruction, and disposal related operations; as well as all construction activities on Kaho'olawe Island. Such operations include, but are not limited to, all inter- and intra-island transportation of personnel and materials; access and movement of personnel and materials on the island; construction activities; storage, issuance, movement, and usage of explosives, demolition and related materials; UXO processes including search, access, identification, movement, demolition, treatment, destruction, disposal, and storage activities; establishment, control and enforcement of safety, restricted, and exclusion zones surrounding all UXO clearance activities, explosive and UXO holding areas and activities, and explosive and demolition activities. Additionally, the RCO is responsible for: direct supervision of the SUXOSS, DS, UXO escorts, and emergency medical technician (EMT) personnel; accounting for the number of, and controlling the movement and locations of, all personnel on-island; coordinating with Pacific Division, Naval Facilities Engineering Command (PACNAVFACENGCOM) prior to all explosive operations; maintaining continuous communication with all personnel/teams on-island, as well as required off-island authorities; ensuring that all explosive operations on-island are conducted in accordance with Federal, DoD and Navy explosive safety guidelines and approved site safety submissions; and ensuring that off-island storage and transport are conducted in accordance with Federal, State and local requirements. A fully qualified alternate RCO shall be designated during any absence of the primary RCO.

The minimum qualifications for the RCO are:

- a. Graduate of the Naval Explosive Ordnance Disposal (EOD) School, Indian Head, MD.
- b. Qualifications as a Master EOD technician.
- c. Minimum of seven years of documented hands-on experience in the planning, administration, execution and control of UXO Clearance/Demolition Range Operations and Safety Programs at the field detachment level, with at least two years in the field administration of UXO Clearance/Demolition Range Operations and Safety Programs.
- d. Minimum of nine years of EOD/UXO field experience, including:
 - 1) Three years of documented active duty military impact/demolition range clearance experience as a Master EOD Technician directly supervising complex multi-EOD team execution of UXO range clearance operations including: search, detection, access, identification and disposal procedures on conventional air and ground ordnance.
 - 2) Two years of current civil UXO industry experience may be substituted for military EOD experience.
- e. Military reservist EOD experience is applicable only to the extent that it was accrued while on active duty, while assigned to an EOD position, and served directly performing hands-on EOD search, detection, access, identification, and disposal functions.
- f. Shall never have been removed from a UXO, EOD, or safety oversight position for cause, including unsatisfactory performance, safety or personal reliability reasons.

1.3.3.6 Project Quality Control Manager (PQCM). The Project Quality Control Manager is responsible for: the development, execution, and maintenance of a stringent QC plan in accordance with the requirements of the contract; overall management of the QC program including direct supervision of all QC personnel, delegation of QC tasking and approving and signing all QC reports; and certification of all QC submissions from the Contractor.

The minimum qualifications for the PQCM are:

- a. Graduate of an accredited college with a degree in engineering, construction management, or appropriate related field.
- b. Certified Quality Professional, under certification by the American Society for Quality Control (ASQC) as Certified Quality Manager (CQM), Certified Quality Engineer (CQE), or Certified Quality Auditor (CQA).
- c. Five years experience in Environmental Science and/or Ordnance Operations, UXO QC field experience is highly desirable.
- d. Ten years experience as a superintendent, inspector, QC manager, project manager, or construction manager.
- e. All qualifying experience shall have been on similar size and type of contracts.

1.3.3.6.1 In the event that the UXOQCM or CQCM or HPQCM is not ASQC certified (CQE, or CQA), the PQCM shall provide direct, on-island supervision and oversight to the uncertified QC staff for no less than fifty percent (50%) of the field operations.

1.3.3.7 Historic Preservation Manager (HPM). The Historic Preservation Manager is responsible for the protection of historic properties potentially affected by all project activities. The HPM develops, implements and executes a Research Design and Implementation Plan; provides oversight and guidance to ensure the professional quality, technical accuracy and academic excellence of all field, laboratory, recording and data management aspects of historic preservation efforts under the contract; ensures reporting of historic preservation efforts; and ensures that historic property protection measures are incorporated into all aspects of the UXO clearance and associated support work.

The minimum qualifications for the HPM are:

- a. Masters Degree in Anthropology with an emphasis in Archaeology from an accredited college or university.
- b. Shall meet the minimum professional qualification standards listed in the Final Uniform Regulations for Archaeological Resources Protection Act of 1979 (ARPA) (32 CFR Part 229).
- c. Knowledge of Federal Historic Preservation Standards and Guidelines as set forth in FR Vol. 48 No. 190, Page 44734-9, and knowledge of Federal, State and local historic preservation laws and requirements.
- d. Ten years of professional experience in Pacific Archaeology, including supervisory and project director level experience.
- e. Experience in direct administration of large scale archaeological projects as evidenced by completed and accepted technical publications/reports.
- f. Demonstrated ability to carry research to completion, write research designs, and sample strategies.

1.3.4 Duties and Minimum Qualifications of Non-Key Personnel.

1.3.4.1 Architect/Engineer (A/E). The Architect/Engineer is responsible for: planning, designing and preparing technical submittals; providing field consultations on all construction, maintenance and repair projects; assisting the Senior Project Manager in carrying out Kaho'olawe UXO clearance efforts; and assisting the Project Superintendent in interpretation of engineering data.

The minimum qualifications for the A/E are:

- a. A US Registered Architect, or a US Registered Professional Engineer.
- b. Three years professional experience in Hawaii.
- c. One year of experience with environmental restoration projects is desirable.

1.3.4.2 Data/Database Manager (DM). The Data/Database Manager is responsible for the management, operation, and control of the Kaho'olawe Island Geographical Information System (KIGIS) as described in Part 6.6. The DM assures proper and accurate assembly and filing of data records; input of data into electronic database; maintenance and management of database hardware, software, records, up-to-date hard copy files and electronic database. The DM shall be responsible for the data records, data input, translation, storage and retrieval, and accuracy and completeness of all reports.

The minimum qualifications for the DM are:

- a. Three years documented expertise in all aspects of the assembly, configuration and use of computer hardware.
- b. Three years of documented experience in the operation and management of large complex GIS systems, databases and data files.
- c. Fluency in the functions, operation and programming of the computer software programs listed in Parts 6.5 and 6.6.

1.3.4.3 Project Superintendent (PS). The Project Superintendent responsibilities include, but are not limited to; managing, supervising and administering material logistic procedures, executing the project tracking system, coordinating construction work including subcontracted efforts, and monitoring and controlling project costs.

The minimum qualifications for the PS are:

- a. Fifteen years experience in the construction industry.
- b. Three years experience as an overall project superintendent.
- c. Demonstrated familiarity and working knowledge of standard industry/trade practices, codes and standards.

1.3.4.4 Base Camp Manager (BCM). The Base Camp Manager is responsible for managing and supervising the day-to-day support operations of the base camp at Honokanai'a and other construction camps that may be established by the Contractor and approved by the Government.

The minimum qualification for the BCM is:

- a. Five years experience in overall construction camp management and supervision or similar industrial plant management.

1.3.4.5 UXO Safety Officer (UXOSO). The UXO Safety Officer is responsible to the Project Health and Safety Manager for establishing, implementing and executing an effective Contractor explosive and UXO safety program for the UXO clearance, in compliance with all applicable Federal, DoD, Navy, State and local regulations and the requirements of the contract. Responsibilities include but are not limited to: direct

supervision of all UXO safety personnel; analyzing UXO and explosive operations risks, hazards and safety requirements; establishing and enforcing safety requirements for all UXO related operations; safety planning, execution and oversight for UXO and explosive operations; establishment of Standard Operating Procedures (SOPs) for all UXO related activities including search, detection, access, identification, transportation, centralized storage, disposal, treatment, scrap certification, HERO analysis, etc.; establishment, posting and enforcement of personnel limits, safety zones, and exclusion zones surrounding UXO field activities, explosive activities, and UXO transfer and holding areas; executing an effective explosive safety program including UXO safety, explosive storage, quantity-distance safety arcs, explosive transportation, operational procedures, operational personnel qualifications and certification, hazard and risk analysis, and safety assessment of UXO and explosive operations. Additionally, the UXOSO is responsible for the analysis and establishment of Personal Protective Equipment (PPE) requirements for all UXO related tasks and activities as part of the activity/task risk hazard analysis. The UXOSO shall not be assigned duties other than those of UXOSO.

The minimum qualifications for the UXOSO are:

- a. Certified Safety Professional under continued certification by the Board of Certified Safety Professionals. If not so certified, the UXOSO shall work only under the direct on-site supervision of the *Project Health and Safety Manager* who is a Certified Safety Professional, *as provided for in Paragraph 1.3.3.4.1.*
- b. Graduate of the Naval Explosive Ordnance Disposal (EOD) School, Indian Head, MD.
- c. Qualifications as a Master EOD technician.
- d. Minimum of nine years of EOD/UXO experience, including:
 - 1) Three years of documented active duty military impact/demolition range clearance experience as a Master EOD Technician directly supervising complex multi EOD team execution of UXO range clearance operations including search, detection, access, identification and disposal procedures on conventional air and ground ordnance.
 - 2) Included in the forgoing have a minimum of seven years of documented direct hands on experience at the field detachment level in the planning, administration and execution of comprehensive explosive and EOD demolitions range safety programs. Two years of current civil UXO industry safety experience may be substituted for two of military EOD safety experience.
- e. Military reservist EOD experience is applicable when accrued while on active duty, while assigned to an EOD position, and served directly performing hands-on EOD search, detection, access, identification, and disposal functions.
- f. Shall never have been removed from a UXO, EOD, or safety oversight position for cause, including unsatisfactory performance, safety or personal reliability.

1.3.4.6 Construction Safety Officer (CSO). The Construction Safety Officer is responsible to the Project Health and Safety Manager for: analyzing and establishing requirements of

PPE for construction as part of the activity/task risk hazard analysis; direct supervision of all construction safety personnel, monitoring field construction procedures to ensure compliance with the SHSP; briefing personnel on special hazards associated with the project operations; monitoring the handling and control of hazardous materials; developing proper health and safety procedures and enforcing and ensuring compliance with the SHSP; coordinating safety requirements with the HSM and UXO SO; conducting routine safety inspections; ensuring proper maintenance of PPE; and monitoring and reporting results, accidents, injuries, etc. to the HSM, and managing industrial hygiene. The CSO devotes a significant amount of effort to oversight in the field and shall not be assigned duties other than those of CSO.

The minimum qualifications for the CSO are:

- a. Certified Safety Professional under continued certification by the Board of Certified Safety Professionals; if not so certified, shall work only under the direct on-site supervision of the *Project Health and Safety Manager* who is a Certified Safety Professional, as provided for in Paragraph 1.3.3.4.1.
- b. Ten years of experience in positions of overall construction safety management.

1.3.4.7 UXO Quality Control Manager (UXOQCM). The UXO Quality Control Manager is responsible to the *Project Quality Control Manager* for developing and implementing specific UXO sections of the Project Quality Control Plan in compliance with the Federal, DoD, and Navy requirements. The UXOQCM is responsible for directly supervising all UXO QC personnel, directing and approving the correction of any and all non-conforming or unsafe UXO work performed under the contract, and after notifying the PM and/or the RCO, for stopping further performance of non-conforming UXO work or unsafe activities.

The minimum qualifications for the UXOQCM are:

- a. Three years documented direct experience in the execution of QC programs.
- b. Certification in the Quality Sciences (CQE, CQA). *If not so certified, the UXOQCM shall work only under the direct on-site supervision of the Project Quality Control Manager, who is a Certified Quality Professional, as provided for in Paragraph 1.3.3.6.1 above.*
- c. Graduate of the Naval Explosive Ordnance Disposal (EOD) School, Indian Head, MD.
- d. Qualifications as a Master EOD technician.
- e. Minimum of seven years of documented direct hands on experience in the planning and administration of comprehensive explosive Quality Control Programs and UXO safety programs, with at least two years of that experience in the direct field administration of explosive Quality Control programs. Such background may be a combination of military EOD and civil UXO industry experience.
- f. Minimum of nine years of EOD/UXO experience, including:
 - 1) Three years of documented active duty military impact/demolition range clearance experience as a Master EOD Technician directly supervising complex multi EOD team execution of UXO range clearance operations including search, detection, access, identification and disposal procedures on

conventional air, ground ordnance.

- g. Military reservist EOD experience is applicable only to the extent that it was accrued while on active duty, while assigned to an EOD position, and served directly performing hands-on EOD search, detection, access, identification, and disposal functions.
- h. Shall never have been removed from a QC, Quality Assurance Specialist (Ammunition Surveillance) (QASAS), UXO, EOD, or safety oversight position for cause, including unsatisfactory performance, safety or personal reliability.

Alternate minimum UXOQCM qualifications are:

- a. Successfully completed the prescribed training for the QASAS career program at the U.S. Army Defense Ammunition Center and School.
- b. Fifteen years of QASAS operational experience, which includes conventional ammunition, and
 - 1) At least one OCONUS assignment as a QASAS.
 - 2) At least one QASAS supervisory position.
- c. Shall never have been removed from a QC, QASAS, UXO, EOD, or safety oversight position for cause, including unsatisfactory performance, safety or personal reliability.

1.3.4.8 Construction Quality Control Manager (CQCM). The Construction Quality Control Manager is responsible to the PQCM for developing and implementing the construction sections of the project quality control plan (including the three phases of inspection) in compliance with Federal, DoD, and Navy requirements. The CQCM is responsible for directly supervising all CQC personnel, directing and approving the correction of any and all non-conforming or unsafe construction work performed under the contract, and after notifying the PM and/or the RCO, for stopping further performance of non-conforming construction work or unsafe activities. The CQCM monitors and approves the quality of materials, plans, surveys, fabrication, as-built drawings, and other construction related work to ensure compliance with specifications, workmanship standards, and the requirements of the contract.

The minimum qualifications for the CQCM are:

- a. College graduate with a degree in engineering or related field.
- b. Minimum of six years of experience as a superintendent, inspector, QC Manager, construction manager, or environmental remedial action control manager on similar size and type construction or remedial action contracts.
- c. Three years documented direct experience in the execution of QC programs.
- d. Certification in the Quality Sciences (CQE or CQA). *If not so certified, the CQCM shall work only under the direct on-site supervision of the Project Quality Control Manager, who is a Certified Quality Professional, as provided for in Paragraph 1.3.3.6.1 above.*

1.3.4.9 Historic Preservation Quality Control Manager (HPQCM). The Historic Preservation Quality Control Manager is responsible for developing, enforcing, and implementing the HP Quality Control Program. This includes, but is not limited to, QC of

6.6 KAHO'OLAWA ISLAND GEOGRAPHIC INFORMATION SYSTEM (KIGIS)

6.6.1 General. A Kaho'olawe Island Geographic Information System (KIGIS) will be used to manage all graphical and non-graphical data associated with the UXO Clearance Project. The Government has developed a KIGIS that contains maps and photographs of Kaho'olawe, a database for ordnance and historic property data, and a model to estimate the clearance costs. *The Government will provide custom KIGIS software and existing KIGIS data to the Contractor as a Modular GIS Environment (MGE) project file.*

6.6.2 System Description

6.6.2.1 Software:

- a. Operating System: Windows NT 3.51
- b. Database: Oracle Server 7.3
RIS (Intergraph Relational Interface System)
- c. CAD: Micro station V5
- d. GIS: MGE Basic Nucleus
MGE Basic Administrator
MGE Base Mapper
MGE Terrain Analyst
MGE Projection Manager
VistaMap (Intergraph GIS viewer)

6.6.2.2 Hardware:

- a. Intergraph ISMP64 server
 - 4 Pentium processors
 - 128 MB RAM
 - 3.5 " floppy drive
 - CD-ROM drive
 - 8 mm tape drive
- b. Intergraph InterRAID-12 RAID system with 6 GB disk capacity
- c. Intergraph TD-5 workstation
 - 2 Pentium processors
 - 100 MB RAM
 - 3.5 " floppy drive
 - CD-ROM drive
 - Dual 27" monitors

6.6.2.3 Existing Data. Vector graphic data includes maps of topography, ordnance target areas, soil types, vegetation, roads, proposed land use, historic property sites, and ordnance found during a model clearance project. Raster graphic data includes aerial photos of Kaho'olawe, ground photos taken with a digital camera, and scanned drawings of historic property sites. Non-graphic data associated with the maps is maintained in the relational database. Total amount of graphic and non-graphic data is approximately 300 MB.

6.6.2.4 Cost Model.

- a. The KIGIS cost model is a tool for estimating UXO clearance costs. While viewing a map of Kaho'olawe, the user can select an area to be cleared and the cost model will generate a report of estimated costs. The report is broken down into various cost categories such as scrap removal, excavation, UXO disposition, etc.
- b. The cost model calculates costs based on several factors that are assumed to affect clearance costs. These factors include topography, surface texture, overgrowth density, ordnance density, etc. The cost model initially uses historical and extrapolated data for these factors, but as the cleanup progresses and data is gathered, the cost model will use actual data if possible.
- c. Most of the parameters used in the cost model calculations are maintained in the GIS database. This database approach allows the user to adjust the cost model by modifying values in the database. For example, if actual data shows that the cost model is consistently overestimating clearance costs, the user can make adjustments to pertinent parameter factors to reduce future cost estimates.

6.6.2.5 User Interface. The KIGIS provides a graphical user interface for entering historic property and ordnance data, running the cost model, and modifying cost model parameters.

6.6.3 System Operations. The Contractor shall provide the hardware, software, and personnel to maintain the KIGIS. The Contractor shall enter ordnance, historic property, survey, and mapping data into the KIGIS on a daily basis. In addition, hard copy files and records shall be assembled, maintained, and managed. The Contractor shall provide KIGIS data to the Government as required. The Contractor shall validate and provide daily quality control of all data.

6.6.4 System Access. The Contractor shall provide hardware, software, and training so that Government personnel on Kaho'olawe, at PACNAVFACENGCOM on Oahu, and at NAVEODTECHDIV in Indian Head, Maryland, have online access to KIGIS data.

PART 7.0 QUALITY CONTROL (QC)

7.1 QC PROGRAM REQUIREMENTS. This part establishes Quality Control requirements for this procurement.

7.2.1 Contractor's Quality System. The Contractor shall develop and execute an effective Quality System which demonstrates the application of, and conformance to the specifications of American National Standards Institute /American Society for Quality Control (ANSI/ASQC) E4-1994: Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs. Equivalent standards may be considered, such as the ISO 9000 series of Quality Systems Standards, only when supplemented by quality plans specific to environmental data and technology

7.8 COORDINATION AND MUTUAL UNDERSTANDING MEETING. The Contractor shall schedule a meeting showing location, date and agenda with the Government to present the QC program after submitting the QC Plan, and prior to the start of work. The purpose of this meeting is to develop a mutual understanding of the QC details, including documentation, administration work on and off-site, and coordination of Contractor's management, production and QC personnel. The Contractor shall explain in detail how the three phases of control will be implemented for each definable feature of work. The Contractor's personnel required to attend shall include firm principal, *program manager*, *senior project manager*, project superintendent, QC Managers, A-E, and subcontractor representatives. Each subcontractor assigned QC responsibilities shall have a principal of the firm at the meeting. Minutes of the meeting shall be prepared by the QC Manager, signed by the Contractor, A-E, and Government representative(s) and provided to all attendees. The meeting room shall have appropriate equipment such as a VCR & monitor, overhead projector and a flipchart.

7.8.1 Weekly QC Meetings. The *Project* QC Manager shall conduct weekly QC meetings at the work site with the *senior* project manager, project superintendent(s) and other QC Managers. The *Project* QC Manager shall prepare the minutes of the meeting and provide a copy to the Contracting Officer within two working days after the meeting. The *Project* QC Manager shall notify the Contracting Officer at least two days prior to each meeting to offer the Government the opportunity to attend.

PART 8.0 CONTRACT DELIVERABLES

8.1 PREPARATION. All submittals shall be prepared and submitted as identified in the Contract Deliverable List (CDL) provided in Attachment JC.6. As the project progresses, additional submittals may be identified and added to the CDL. Submittals shall be tracked in accordance with the CDL Submittal Status Log. The Contractor shall provide estimated cost(s) for each CDL item in response to an RFP for a specific TO.

8.2 SUBMITTALS. The Contractor shall provide submittals or deliverables in accordance with requirements stated in the Federal Acquisition Regulation (FAR), FAR Clauses and DoD FAR Supplement, DFARS, and DFAR Clauses as well as any other requirements which have been established in the contract.

PART 9.0 ACCESS CONTROL

9.1 RESTRICTIONS. The United States Navy controls access to Kaho'olawe Island. Entry upon Kaho'olawe Island is prohibited without advance authorization from COMNAVBASE Pearl Harbor via PACNAVFACENGCOM Pearl Harbor. Persons and organizations requesting access to Kaho'olawe must comply with the following procedures:

PART 13.0 RANGE CONTROL OPERATIONS

13.1 RANGE CONTROL OPERATIONS PLAN. The Contractor shall develop and submit a Range Control Operations Plan that shall include all aspects of range operations and control for Government review and approval. Specific sections in the plan shall include the requirements in the scope of work that include, but are not limited to, health and safety, access control, camp operations, range operations, range control, communications, O&M, island security, UXO operations/processes, and construction operations.

13.2 RANGE CONTROL STANDARD OPERATING PROCEDURES (SOPs). SOPs shall include, but not be limited to: passes/badges, access to and on Kaho'olawe Island, area survey, area preparation (including burn off), surface/subsurface sweep, open burn area, open detonation area, demolition, excavation, protective works, explosive holding area, open storage area, thermal treatment area, site maintenance (Kaho'olawe Island Reserve O&M, long term monitoring & risk assessment), Federal Aviation Administration (FAA) request & notifications, individual training files (in accordance with 29 CFR 1910.120), UXO clearance records (grid files), topographic, surveys and surveying data, range control personnel list, communication and maintenance procedures, security, evacuation, escort, and construction activities.

13.2.1 SOP Requirements. All SOPs shall be written to provide detailed procedures. Each subsection or part shall be agreed upon by the HSM, PQCM, RCO and SPM and shall be signed by the appropriate supervisor and individual operators/personnel with a statement that he/she have read and understand the procedures in each SOP. The SOPs will be reviewed annually as a minimum and annotated as such on the approval page.

PART 14.0 COMPLIANCE DOCUMENTS

14.1 GENERAL. Comply with the requirements contained in the following documents, date as shown or current version, to the extent specified in the column entitled "Tailored Application." The Attachments are provided in Section J.

COMPLIANCE DOCUMENTS

TITLE	TAILORED APPLICATION	ATTACHMENT
Map of Kaho'olawe	All	JC.1
Regulatory Framework	Sections II, IV & V; Appendices A & B	JC.2
Ordinance Type Found on Kaho'olawe	All	JC.3
List of Contractor Key Personnel	All	JC.4
HTRW Remedial Action Work Breakdown Structure (RA WBS), Level 5, current version. (WBS unique to this contract)	All	JC.5
HTRW Remedial Action Work Breakdown Structure (RA WBS), current version	All	Not Attached
Contract Deliverables Data Item Legend Contract Deliverable List (CDL) Remark A Report Schedule CDL Distribution Address	All	JC.6
USC&GS Geodetic Control Points, Kaho'olawe Island, 5 April 1995	All	JC.7
Service Contract Act Wage Determination, current version	All	See Section G, paragraph G15. Section J, Attachment JL-11 is for solicitation purposes only.
Davis Bacon Act Wage Determination, current version	All	See Section G, paragraph G15. Section J, Attachment JL-12 is for solicitation purposes only.
Order For Supplies or Services, DD Form 1155	All	Not Attached
Award Fee Plan	All	JC.8
Subcontracting Plan	All	JC.9
Government Furnished Property Inventory	All	JC.10
Joint Travel Regulations, current version	All	Not Attached
Reserved	All	JC.11

TITLE	LIBRARIES & CCB, BLDG #62	INTER- NET	CD	SHPD
Archaeological Monitoring of Revegetation Areas on the Island of Kaho'olawe, Hawaii (Final Report), February 1996	X	X	X	X
Lessons Learned from Base Operating Support (BOS) Contract; Kaho'olawe Island, 9 July 1996	X	X	X	
UXO Model Clearance Project Kaho'olawe Island, Hawaii Access Data Base Files, current version in electronic format only		X	X	
Unexploded Ordnance (UXO) Model Clearance Project, Island of Kaho'olawe, Clearance Results Map, current version	X		X	
Topographic Survey - Unexploded Ordnance (UXO) Model Cleanup Map, May 1996	X		X	
PACNAVFACENGCOM P-74, A-E Guide for Architect-Engineer Firms Performing Services for the DON PACNAVFACENGCOM, November 1996	X	X	X	
Storm Water Management Plan for Camp Kaho'olawe, Kaho'olawe, Hawaii, September 1996	X	X	X	
<i>PACNAVFACENGCOM - Kaho'olawe Island Geographic Information System (KIGIS) User's Manual, September 1995</i>	X	X		

SECTION E
INSPECTION AND ACCEPTANCE

E1 FAR 52.246-5 INSPECTION OF SERVICES-COST REIMBURSEMENT
(APR 1984)

(a) Definition. "Services," as used in this clause, includes services performed, workmanship, and material furnished or used in performing services.

(b) The Contractor shall provide and maintain an inspection system acceptable to the Government covering the services under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during contract performance and for as long afterwards as the contract requires.

(c) The Government has the right to inspect and test all services called for by the contract, to the extent practicable at all places and times during the term of the contract. The Government shall perform inspections and tests in a manner that will not unduly delay the work.

(d) If any of the services performed do not conform with contract requirements, the Government may require the Contractor to perform the services again in conformity with contract requirements, for no additional fee. When the defect or services cannot be corrected by reperformance, the Government may (1) require the Contractor to take necessary action to ensure that future performance conforms to contract requirements and (2) reduce any fee payable under this contract to reflect the reduced value of the services performed.

(e) If the Contractor fails to promptly perform the services again or take the action necessary to ensure future performance in conformity with contract requirements, the Government may: (1) by **Contract** or otherwise, perform the services and reduce any fee payable by an amount that is equitable under the circumstances or (2) terminate the contract for default.

E2 INSPECTION AND ACCEPTANCE (DESTINATION)

Inspection and acceptance of the services to be furnished hereunder shall be made at destination by the Contracting Officer's Technical Representative (COTR), Navy Technical Representatives (NTR), or other representatives, as designated on individual Task Order (TOs).

E3 ACCEPTANCE

The performance and quality of work delivered by the Contractor, including services rendered and any documentation or written material compiled shall be subject to inspection, review, and acceptance by the Government.

E4 FAC 5252.223-9300 INSPECTION BY REGULATORY AGENCIES (JUN 1994)

Work performed under this contract is subject to inspection by state and Federal Government Regulatory agencies including those described below. Permission has been granted by the Navy permitting federal and state occupational health and safety officials to enter Navy shore installations, without delay and at reasonable times, to conduct routine safety and health investigations. Permission also extends to safety and health investigations based on reports of unsafe conditions. Occupational Health and Safety Administration (OSHA) officials may also investigate accidents or illnesses involving the Contractor's employees. Inspections may also be carried out by the Department of Labor to inspect for compliance with labor laws.

The Contractor shall cooperate with regulatory agencies and shall provide personnel to accompany the agency inspection or review teams. Contractor personnel shall be knowledgeable concerning the work being inspected, and participate in responding to all requests for information, inspection or review findings by regulatory agencies.

E5 PERFORMANCE EVALUATION MEETINGS

The Contractor shall meet with the Government as often as necessary at the discretion of the Contracting Officer. A mutual effort shall be made to resolve all problems identified. The written minutes of these meetings, prepared by the Contractor, shall be signed by the Contractor's representative and the Government's representative. Should the Government not concur with the minutes, the Government shall state in writing, to the Contractor any areas of disagreement within 15 calendar days.

<u>FAR REF. NUMBER</u>	<u>CLAUSE TITLE</u>	<u>DATE</u>
52.227-14	Rights in Data - General	JUN 1987
52.228-7	<i>Insurance-Liability to Third Persons</i>	MAR 1996
52.230-2	Cost Accounting Standards	APR 1996
52.230-6	Administration of Cost Accounting Standards	APR 1996
52.232-17	Interest	JUN 1996
52.232-19	Availability of Funds for the Next Fiscal Year	APR 1984
52.232-20	Limitation of Cost	APR 1984
52.232-22	Limitation of Funds	APR 1984
52.232-23	Assignment of Claims	JAN 1986
52.232-25	Prompt Payment	MAR 1994
52.232-33	Mandatory Information for Electronic Funds Transfer Payment	AUG 1996
52.233-1	Disputes	OCT 1995
52.233-3	Protest After Award (Aug 1996) (Alternate I)	JUN 1985
52.236-5	Material and Workmanship	APR 1984
52.236-7	Permits and Responsibilities	NOV 1991
52.236-18	Work Oversight in Cost-Reimbursement Construction Contracts	APR 1984
52.236-19	Organization and Direction of the Work	APR 1984
52.237-3	Continuity of Services	JAN 1991
52.242-1	Notice of Intent to Disallow Costs	APR 1984
52.242-3	Penalties for Unallowable Costs	OCT 1995
52.242-4	<i>Certification of Indirect Costs</i>	OCT 1995
52.242-13	Bankruptcy	JUL 1995
52.243-2	Changes - Cost Reimbursement (Alternate II)	AUG 1987
52.243-6	Change Order Accounting	APR 1984
52.243-7	Notification of Change	APR 1984
52.244-2	Subcontracts (Cost-Reimbursement and Letter Contracts) (Alternate I)	AUG 1996
52.244-5	Competition in Subcontracting	JAN 1996
52.244-6	Subcontracts for Commercial Items and Commercial Components	OCT 1995
52.245-5	Government Property (Cost-Reimbursement, Time-and- Material or Labor-Hour Contracts)	JAN 1986
52.245-19	Government Property Furnished "As Is"	APR 1984
52.246-25	Limitation of Liability - Services	APR 1984
52.247-63	Preference for U.S.-Flag Air Carriers	APR 1984
52.247-64	Preference for Privately Owned U.S.-Flag Commercial Vessels	AUG 1996
52.248-1	Value Engineering (Alternate III)	APR 1984
52.247-1	Commercial Bill of Lading Notations	APR 1984
52.249-6	Termination (Cost-Reimbursement)	SEP 1996
52.249-14	Excusable Delays	APR 1984
52.251-1	Government Supply Sources	APR 1984

<u>FAR REF. NUMBER</u>	<u>CLAUSE TITLE</u>	<u>DATE</u>
52.252-6	Authorized Deviations in Clauses	APR 1984
52.253-1	Computer Generated Forms	JAN 1991

<u>DFARS REF. NUMBER</u>	<u>CLAUSE TITLE</u>	<u>DATE</u>
252.203-7000	Statutory Prohibition on Compensation to Former Department of Defense Employees	NOV 1995
252.203-7001	Special Prohibition on Employment	NOV 1995
252.203-7002	Display of DOD Hotline Poster	DEC 1991
252.204-7000	Disclosure of Information	DEC 1991
252.204-7003	Control of Government Personnel Work Product	APR 1992
252.205-7000	Provision of Information to Cooperative Agreement of Holders	DEC 1991
252.209-7000	Acquisition From Subcontractors Subject to On-Site Inspection Under the Immediate-Range Nuclear Forces (INF) Treaty	NOV 1995
252.209-7004	Reporting of Commercial Transactions with the Government of a Terrorist Country	SEP 1994
252.215-7000	Pricing Adjustments	DEC 1991
252.215-7002	Cost Estimating System Requirements	DEC 1991
252.222-7000	Restrictions on Employment of Personnel	DEC 1991
252.223-7001	Hazard Warning Labels	DEC 1991
252.223-7002	Safety Precautions for Ammunition and Explosives	MAY 1994
252.223-7003	Change in Place of Performance - Ammunition and Explosives	DEC 1991
252.223-7004	Drug-Free Work Force	SEP 1988
252.225-7005	Identification of Expenditures in the United States	DEC 1991
252.225-7012	Preference for Certain Domestic Commodities	NOV 1995
252.225-7026	Reporting of Contract Performance Outside the United States	NOV 1995
252.225-7031	Secondary Arab Boycott of Israel	JUN 1992
252.227-7000	Non-Estoppel	OCT 1966
252.227-7013	Rights in Technical Data - Noncommercial items	NOV 1995
252.227-7022	Government Rights (Unlimited)	MAR 1979
252.227-7023	Drawings and Other Data to Become Property of Government	MAR 1979
252.227-7025	Limitations on the Use or Disclosure of Government Furnished Information Marked with Restrictive Legends	JUN 1995
252.227-7030	Technical Data - Withholding of Payment	OCT 1988
252.227-7033	Rights in Shop Drawings	APR 1966
252.227-7037	Validation of Restrictive Markings on Technical Data	NOV 1995

<u>DFARS REF. NUMBER</u>	<u>CLAUSE TITLE</u>	<u>DATE</u>
252.231-7000	Supplemental Cost Principles	DEC 1991
252.232-7006	Reduction or Suspension of Contract Payments Upon Finding of Fraud	AUG 1992
252.233-7000	Certification of Claims and Requests for Adjustment or Relief	MAY 1994
252.242-7004	Material Management and Accounting System	DEC 1991
252.243-7000	Engineering Change Proposals (Alternate I)	MAY 1994

**PART III - LIST OF DOCUMENTS, EXHIBITS, AND
OTHER ATTACHMENTS**

SECTION J - LIST OF ATTACHMENTS AND EXHIBITS

<u>Attachment No.</u>	<u>Title</u>
JC.1	Map of Kaho'olawe
JC.2	Regulatory Framework
JC.3	Ordnance Type Found on Kaho'olawe Island
JC.4	List of Contractor Key Personnel (to be completed at time of award)
JC.5	HTRW Remedial Action Work Breakdown Structure (RA WBS), <i>Fifth Level</i> , current version (WBS unique to this contract) <i>w/Data Dictionary Standard Descriptions</i>
JC.6	Contract Deliverables Data Item Legend Contract Deliverable List (CDL) Remark A CDL Distribution Address
JC.7	USC&GS Geodetic Control points on Kaho'olawe Island, 5 April 1995
JC.8	Award Fee Plan
JC.9	Subcontracting Plan
JC.10	Government Furnished Property Inventory- Equipment and Materials
JC.11	Reserved

SECTION J - LIST OF ATTACHMENTS AND EXHIBITS

<u>Attachment No.</u>	<u>Title</u>
JL.1	Standard Form 1448, Proposal Cover Sheet (Cost or Pricing Data Not Required)
JL.2	Sample Project Description
JL.3	Summary, Company Experience
JL.4	Company Experience Form
JL.5	Summary, Key Personnel Experience
JL.6	Key Personnel Experience Form (Resume)
JL.7	Memorandum of Agreement - Direct Labor Rates and Maximum Award Fee
JL.8	Memorandum of Agreement - Indirect Rates and Ceilings
JL.9	Memorandum of Agreement - Identification of Ratios for Base Year
JL.10	Cost Breakout Forms - Sample Project/Program Management Office (PMO)
JL.11	Service Contract Act Wage Determination No. 94-2154 Revision No. 6 dtd 6/6/96
JL.12	Davis Bacon Act General Decision No. HI960001 Modification No. 7 dtd 11/29/96

* Under the column entitled, "Attachment No.":

- The 1st letter represents Section J - List of Attachments and Exhibits.
- The 2nd letter represents the Section of the RFP in which the attachment is referenced.
- The number after the decimal point represents the order of precedence in which it appears in the Section of the RFP.

**HTRW Remedial Action Work Breakdown Structure (RA WBS)
To Fifth Level**

					DESCRIPTION	UOM English Metric		
331XX	22				GENERAL REQUIREMENTS (Optional Breakout)			
	22	01			Supervision and Management	MO	MO	
	22	01	01		Program Manager	MO	MO	
	22	01	02		Senior Project Manager	MO	MO	
	22	01	03		General Superintendent	MO	MO	
	22	01	04		Area Superintendent	MO	MO	
	22	01	05		Civil Superintendent	MO	MO	
	22	01	06		Carpenter Superintendent	MO	MO	
	22	01	07		Mechanical Superintendent	MO	MO	
	22	01	08		Electrical Superintendent	MO	MO	
	22	01	09		Public Relations Officer	MO	MO	
	22	01	10		Clerks, Typists, and Receptionists	MO	MO	
	22	01	11		Vehicles	MO	MO	
	22	01	12		Travel and Per Diem	MO	MO	
	22	01	13		Contract Administration Manager	MO	MO	
	22	01	14		Project Health and Safety Manager	MO	MO	
	22	01	15		Range Control/Operations Officer	MO	MO	
	22	01	16		Project Quality Control Manager	MO	MO	
	22	01	17		Historic Preservation Manager	MO	MO	
	22	01	18		Historic Preservation Quality Control Manager	MO	MO	
	22	01	19		Construction Quality Control Manager	MO	MO	
	22	01	20		Project Superintendent	MO	MO	
	22	01	21		Base Camp Manager	MO	MO	
	22	01	22		Base Camp Quality Control Manager	MO	MO	
	22	01	23		Senior UXO Specialist Supervisor	MO	MO	
	22	01	24		UXO Specialist Supervisor	MO	MO	
	22	01	25		UXO Quality Control Manager	MO	MO	
	22	01	26		Demolition Supervisor	MO	MO	
	22	01	27		Historic Preservation Field Director	MO	MO	
	22	01	28		Historic Preservation Field Supervisor	MO	MO	
	22	01	29		Historic Preservation Laboratory Director	MO	MO	
	22	01	30		Environmental Manager	MO	MO	
	22	01	31		Environmental Quality Control Manager	MO	MO	
	22	01	32		Natural Resources Manager	MO	MO	
	22	01	33		Natural Resources Quality Control Manager	MO	MO	
	22	01	9x		Other (Use Numbers 90-99)			
	22	02			Administration Job Office	MO	MO	
	22	02	01		Contract Administrator	MO	MO	
	22	02	02		Comptroller	MO	MO	
	22	02	03		Personnel Manager	MO	MO	
	22	02	04		Office Manager	MO	MO	
	22	02	05		Interpreter	MO	MO	
	22	02	06		Accountant	MO	MO	
	22	02	07		Bookkeeper	MO	MO	
	22	02	08		Timekeeper	MO	MO	
	22	02	09		Paymaster	MO	MO	
	22	02	10		Payroll Clerks	MO	MO	
	22	02	11		Stenographer	MO	MO	
	22	02	12		Clerks, Typists, and Receptionists	MO	MO	
	22	02	14		Messengers	MO	MO	
	22	02	15		Reproduction	MO	MO	

**HTRW Remedial Action Work Breakdown Structure (RA WBS)
To Fifth Level**

					DESCRIPTION	UOM English Metric		
	22	02	16		Computer Technicians	MO	MO	
	22	02	17		Computer Hardware and Software	MO	MO	
	22	02	18		Office Supplies	MO	MO	
	22	02	19		Mailing and Shipping	MO	MO	
	22	02	20		Vehicles	MO	MO	
	22	02	21		Travel and Per Diem	MO	MO	
	22	02	9x		Other (Use Numbers 90-99)			
	22	03			Warehouse, Materials Handling, and Purchasing	MO	MO	
	22	03	01		Chief Purchasing Agent	MO	MO	
	22	03	02		Purchasing Agent	MO	MO	
	22	03	03		Buyers	MO	MO	
	22	03	04		Expeditors	MO	MO	
	22	03	05		Traffic Manager	MO	MO	
	22	03	06		Travel Clerks	MO	MO	
	22	03	07		Shipping Clerks	MO	MO	
	22	03	08		Inventory Control Manager	MO	MO	
	22	03	09		Inventory Control Clerks	MO	MO	
	22	03	10		Chief Warehouse Manager	MO	MO	
	22	03	11		Receiving Clerk	MO	MO	
	22	03	12		Charge Out Clerk	MO	MO	
	22	03	13		Tool House Labor	MO	MO	
	22	03	14		Common Labor	MO	MO	
	22	03	15		Clerks and Typists	MO	MO	
	22	03	16		Equipment for Lifting and Moving	MO	MO	
	22	03	17		Office Supplies	MO	MO	
	22	03	18		Mailing and Shipping	MO	MO	
	22	03	19		Vehicles	MO	MO	
	22	03	20		Travel and Per Diem	MO	MO	
	22	03	9x		Other (Use Numbers 90-99)			
	22	04			Engineering, Surveying, and Quality Control	MO	MO	
	22	04	01		Project Engineer	MO	MO	
	22	04	02		Civil Engineer	MO	MO	
	22	04	03		Mechanical Engineer	MO	MO	
	22	04	04		Electrical Engineer	MO	MO	
	22	04	05		Geologist	MO	MO	
	22	04	06		Hydrogeologist	MO	MO	
	22	04	07		Scientist	MO	MO	
	22	04	08		Nuclear (Radioactive) Engineer	MO	MO	
	22	04	09		Field Engineer	MO	MO	
	22	04	10		Surveyors	MO	MO	
	22	04	11		Office Engineer	MO	MO	
	22	04	12		Draftsman	MO	MO	
	22	04	13		Engineering Clerks and Typists	MO	MO	
	22	04	14		Cost Engineer and Cost Estimator	MO	MO	
	22	04	15		Planning Engineer	MO	MO	
	22	04	16		Schedulers	MO	MO	
	22	04	17		Inspectors	MO	MO	
	22	04	18		Construction Lab Technicians	MO	MO	
	22	04	19		Waste Management Technicians	MO	MO	
	22	04	20		CPM Schedule Monthly Updates	MO	MO	
	22	04	21		Field Shop Drawing Service	MO	MO	

**HTRW Remedial Action Work Breakdown Structure (RA WBS)
To Fifth Level**

					DESCRIPTION	UOM English Metric		
22	04	22			Surveying Supplies and Equipment	MO	MO	
22	04	23			Engineering Supplies and Equipment	MO	MO	
22	04	24			Quality Control Engineer	MO	MO	
22	04	25			Quality Control Manager	MO	MO	
22	04	26			Chemical Quality Control Manager	MO	MO	
22	04	27			Mailing and Shipping	MO	MO	
22	04	28			Vehicles	MO	MO	
22	04	29			Travel and Per Diem	MO	MO	
22	04	30			Architect	MO	MO	
22	04	31			General Engineer	MO	MO	
22	04	32			Data/Database Manager	MO	MO	
22	04	33			Data/Database Quality Control	MO	MO	
22	04	34			UXO Safety Officer	MO	MO	
22	04	35			Construction Safety Officer	MO	MO	
22	04	36			Base Camp Safety Officer	MO	MO	
22	04	37			Registered Land Surveyor	MO	MO	
22	04	38			UXO Specialist	MO	MO	
22	04	39			UXO Escort	MO	MO	
22	04	40			UXO Sweep Personnel	MO	MO	
22	04	41			Geophysical Detector Personnel	MO	MO	
22	04	42			UXO Heavy Equipment Operator for Excavation	MO	MO	
22	04	43			Industrial Hygienist	MO	MO	
22	04	44			Environmental Protection Specialist	MO	MO	
22	04	45			Natural Resources Specialist	MO	MO	
22	04	46			Military Historian	MO	MO	
22	04	47			Historic Preservation Technician	MO	MO	
22	04	48			Historic Preservation Field/Lab Assistant	MO	MO	
22	04	9x			Other (Use Numbers 90-99)			
22	05				Equipment Maintenance and Motor Pool	MO	MO	
22	05	01			Master Mechanic	MO	MO	
22	05	02			Mechanics	MO	MO	
22	05	03			Mechanic Helpers	MO	MO	
22	05	04			Spare Parts Manager	MO	MO	
22	05	05			Parts Clerk	MO	MO	
22	05	06			Motor Pool Manager	MO	MO	
22	05	07			Service Truck Driver	MO	MO	
22	05	08			Motor Pool Equipment Operator	MO	MO	
22	05	09			Motor Pool Driver	MO	MO	
22	05	10			Common Labor	MO	MO	
22	05	11			Fuel Truck and Labor	MO	MO	
22	05	12			Lube Truck and Labor	MO	MO	
22	05	13			Crane, Lifting Equipment and Labor	MO	MO	
22	05	14			Truck Scales	MO	MO	
22	05	15			Waste Water Holding Tanks	MO	MO	
22	05	16			POL Dispensing Station	MO	MO	
22	05	17			Vehicles	MO	MO	
22	05	18			Travel and Per Diem	MO	MO	
22	05	9x			Other (Use Numbers 90-99)			
22	06				First Aid, Fire Protection, Traffic Control, and Security	MO	MO	
22	06	01			Field Doctor	MO	MO	
22	06	02			Field Nurse	MO	MO	

**HTRW Remedial Action Work Breakdown Structure (RA WBS)
To Fifth Level**

					DESCRIPTION	UOM English Metric		
22	06	03			Medical Supplies	MO	MO	
22	06	04			Emergency Supplies	MO	MO	
22	06	05			Ambulance	MO	MO	
22	06	06			Field Fire Chief	MO	MO	
22	06	07			Field Fire Fighter	MO	MO	
22	06	08			Fire Fighter Supplies	MO	MO	
22	06	09			Fire Truck	MO	MO	
22	06	10			Water Truck	MO	MO	
22	06	11			Fire Extinguishers and Fire Suppression Systems	MO	MO	
22	06	12			Traffic Flagmen	MO	MO	
22	06	13			Traffic Control Equipment	MO	MO	
22	06	14			Pilot Car	MO	MO	
22	06	15			Barricades	MO	MO	
22	06	16			Security Clerk	MO	MO	
22	06	17			Security Chief	MO	MO	
22	06	18			Security Officer	MO	MO	
22	06	19			Watchmen and Guards	MO	MO	
22	06	20			Vehicles	MO	MO	
22	06	21			Travel and Per Diem	MO	MO	
22	06	9x			Other (Use Numbers 90-99)			
22	07				Health & Safety	MO	MO	
22	07	01			Certified Industrial Hygienist	MO	MO	
22	07	02			Radiation Protection Technologist (RPT)	MO	MO	
22	07	03			Certified Health Physicist	MO	MO	
22	07	04			ALARA (As Low As Reasonably Acceptable) Specialist	MO	MO	
22	07	05			Dosimetry Specialist	MO	MO	
22	07	06			Health Physics Trainer	MO	MO	
22	07	07			Site Safety & Health Officer	MO	MO	
22	07	08			Safety Engineer	MO	MO	
22	07	09			Safety Clerk	MO	MO	
22	07	10			Industrial Hygiene Technician	MO	MO	
22	07	11			Air Monitoring Technician	MO	MO	
22	07	12			Respiratory Specialist	MO	MO	
22	07	13			Safety Monitor	MO	MO	
22	07	14			Health and Safety Training (HTW & RAD)	MO	MO	
22	07	15			Health and Safety Medical Exams	MO	MO	
22	07	16			Personal Prot Equip (Prot Clothing, Repirators, Air Supply, etc.)	MO	MO	
22	07	17			Laundry Service	MO	MO	
22	07	18			Heat and Cold Stress Monitoring	MO	MO	
22	07	19			Noise Monitoring	MO	MO	
22	07	20			Odor Monitoring	MO	MO	
22	07	21			On Site Communication System	MO	MO	
22	07	22			Emergency Eye Wash, Body Wash, and Shower	MO	MO	
22	07	23			Radioactive Contamination Protective Equipment	MO	MO	
22	07	24			Vehicles	MO	MO	
22	07	25			Travel and Per Diem	MO	MO	
22	07	26			Project Health and Safety Manager	MO	MO	
22	07	27			UXO Safety Officer	MO	MO	
22	07	28			Construction Safety Officer	MO	MO	
22	07	29			EMT	MO	MO	
22	07	30			MEDEVAC Helicopter	MO	MO	
22	07	9x			Other (Use Numbers 90-99)			

**HTRW Remedial Action Work Breakdown Structure (RA WBS)
To Fifth Level**

						DESCRIPTION	UOM English Metric		
						22 08			
						Temporary Construction Facilities-Ownership	MO	MO	
						22 08 01 Office Trailers and Facilities	MO	MO	
						22 08 02 Office Furniture and Office Equipment	MO	MO	
						22 08 03 Warehouse and Storage Trailers and Facilities	MO	MO	
						22 08 04 Equipment Maintenance Shop	MO	MO	
						22 08 05 Photographic Laboratory	MO	MO	
						22 08 06 Emergency Medical Trailer and Facilities	MO	MO	
						22 08 07 Guard House and Security Shack	MO	MO	
						22 08 08 Construction Portable Toilets	MO	MO	
						22 08 09 Temporary Site Fencing	MO	MO	
						22 08 10 Observation Tower	MO	MO	
						22 08 11 Decontamination Facilities for Personnel	MO	MO	
						22 08 12 Decon Facilities for Construction Equipment and Vehicles	MO	MO	
						22 08 13 Waste Water Holding Tanks	MO	MO	
						22 08 14 Lunch Break Trailer and Facilities	MO	MO	
						22 08 15 Laundry Trailer and Facilities	MO	MO	
						22 08 16 Barricades	MO	MO	
						22 08 17 Government Trailers and Facilities	MO	MO	
						22 08 18 Weather Station	MO	MO	
						22 08 19 Shop Facilities	MO	MO	
						22 08 20 Housing	MO	MO	
						22 08 9x Other (Use Numbers 90-99)			
						22 09			
						Temporary Construction Facilities-Operation	MO	MO	
						22 09 01 Operations Manager	MO	MO	
						22 09 02 Chefs and Cooks	MO	MO	
						22 09 03 Kitchen Help	MO	MO	
						22 09 04 Janitors and Cleaning Services	MO	MO	
						22 09 05 Maintenance & Repair of Temporary Facilities	MO	MO	
						22 09 06 Food and Food Supplies	MO	MO	
						22 09 07 Cleaning Supplies	MO	MO	
						22 09 08 Linen Supplies	MO	MO	
						22 09 09 Personal Items	MO	MO	
						22 09 10 Laundry Service	MO	MO	
						22 09 11 Garbage Services	MO	MO	
						22 09 12 Haul Road Maintenance	MO	MO	
						22 09 13 Temporary Parking Lot Maintenance	MO	MO	
						22 09 14 Vehicles	MO	MO	
						22 09 15 Travel and Per Diem	MO	MO	
						22 09 9x Other (Use Numbers 90-99)			
						22 10			
						Project Utilities	MO	MO	
						22 10 01 Telephone Usage	MO	MO	
						22 10 02 Electrical Usage	MO	MO	
						22 10 03 Sewer Usage	MO	MO	
						22 10 04 Water Usage	MO	MO	
						22 10 05 Gas Usage	MO	MO	
						22 10 9x Other (Use Numbers 90-99)			
						22 11			
						Miscellaneous Project Expenses	MO	MO	
						22 11 01 Craft Qualification Programs	MO	MO	
						22 11 02 Start Up Programs	MO	MO	

**HTRW Remedial Action Work Breakdown Structure (RA WBS)
To Fifth Level**

					DESCRIPTION	UOM English Metric		
22	11	03			Project Photographs	MO	MO	
22	11	04			Video Monitoring/Recording System	MO	MO	
22	11	05			Emergency Air Freight	MO	MO	
22	11	06			Submittals	MO	MO	
22	11	07			Project Signs	MO	MO	
22	11	08			Winterize Project and Temporary Heat	MO	MO	
22	11	09			Daily Site Cleanup	MO	MO	
22	11	10			Final Site Cleanup	MO	MO	
22	11	11			Permits	MO	MO	
22	11	12			Spare Parts Inventory	MO	MO	
22	11	13			Protect Existing Property	MO	MO	
22	11	14			Snow Removal	MO	MO	
22	11	15			Vehicles	MO	MO	
22	11	16			Meetings	MO	MO	
22	11	17			Travel and Per Diem	MO	MO	
22	11	9x			Other (Use Numbers 90-99)			
22	12				Insurance, Interest, and Fees	MO	MO	
22	12	01			Builders Risk Insurance	MO	MO	
22	12	02			Equipment Floater Insurance	MO	MO	
22	12	03			Liability Insurance	MO	MO	
22	12	04			Pollution Liability Insurance	MO	MO	
22	12	05			Marine Insurance	MO	MO	
22	12	06			Interest for Financing	MO	MO	
22	12	07			Home Office (General and Administrative)	MO	MO	
22	12	08			Profit	MO	MO	
22	12	09			Bond	MO	MO	
22	12	9x			Other (Use Numbers 90-99)			
22	9x				Other (Use Numbers 90-99)			

**REMARK A
ITEM NO. A10
HISTORIC PRESERVATION PLANS**

<u>COLUMN 7</u> DISTRIBUTION (Hard Copy).	<u>DRAFT</u>	<u>FINAL</u>
PM	3	3
CO	0	1
COTR	1	1
PDE	1	1
EOD	1	1
C231	2	2

1. Contract submittals such as reports, data, records, etc. that are generated, acquired and or produced by the Contractor are the property of the U.S. Government and shall not be released to others unless authorized by the Contracting Officer.

2. An electronic copy of the draft and final (including re-submittal, and subsequent changes to the final) shall be provided to the Contracting Officer.

COLUMN 8 REMARKS (REFERENCE: DID No. DI-MGMT-81117 TECHNICAL AND MANAGEMENT WORK PLAN).

1. Historic Preservation Plans shall include, but are not limited to, Historic Preservation Research Design and Historic Preservation Implementation Plan:

a. Historic Preservation Research Design (Ref. C5.4.1).

This section shall include the topics specified in Section C Part 5.4.1 and those identified and discussed in the Secretary of the Interior's Guidelines for Archaeological Documentation: Documentation Plan (Department of the Interior, Archaeology and Historic Preservation: Secretary of the Interiors's Standards and Guidelines, effective 1983, or subsequent revisions made prior to the completion of the report).

b. Historic Preservation Implementation Plan (Ref. C5.4.2).

- (1) This section shall include information necessary to substantiate the Contractor's approach to providing the historic preservation services specified in the contract. Subsequent revisions and /or addendums to the plan shall include information necessary to substantiate the Contractor's approach to completing specific Task Orders. This section shall include information necessary for the Government to assess the soundness of the Contractor's approach.
- (2) The Plan shall include, but not be limited to, the following:
 - a. Contractor's organizational structure and assignment of functions, duties, and responsibilities which will be assigned in support of the historic preservation services required of the Task Order(s).
 - b. Organizational interfaces between the Contractor and the Government, between the Contractor and the KIRC, and between the Contractor and other Contractors or subcontractors which are necessary to complete the assigned tasking.
 - c. Methodology (technical approach), including tools, standards and procedures to be used by the Contractor to accomplish the Task Order. All documentation, activity, or decisions required from the Government shall be identified.
 - d. Personnel, including the names and types of personnel assigned to accomplish the Task Order. The Plan shall show how the combination of people assigned to each task provides a sufficient knowledge or experience base for that task. Also, any special administrative support requirements shall be identified.
 - e. Schedule, including a milestone chart(s) graphically depicting the schedule of events associated with the task order. The level of detail shall be sufficient to clearly show how each subtask will be performed. This includes Contractor activities; Contractor deliverables (draft and final), including briefings; other program milestones, as appropriate; and periodic milestones to allow Government review of Contractor's progress.
 - f. Deliverables, including a brief description of the contents of each deliverable to be provided as a result of the Task Order.

**AWARD FEE PLAN FOR THE
UNEXPLODED ORDNANCE (UXO) CLEARANCE PROJECT
KAHO'OLAWA ISLAND RESERVE**

A. INTRODUCTION.

1. This award fee plan establishes methods and procedures for the evaluation of Contractor performance.

2. The Contractor is required to perform clearance or removal of Unexploded Ordnance (UXO) and environmental restoration which will allow for reasonably safe use of the identified priority areas on the Kaho'olawe Island Reserve for archaeological, historical, cultural, religious and educational purposes as specified in the Memorandum of Understanding (MOU) between the United States, Department of the Navy and the State of Hawaii dated May 6, 1994. The Kaho'olawe Island Reserve is defined as the Island of Kaho'olawe and the submerged lands and waters extending seaward two miles from the shoreline. The Contractor shall also provide base camp support and construction services.

3. The amount of the maximum award fee pool for each task order is established by calculating a percentage of costs commensurate with the amount of the negotiated estimated budget. The award fee payment will be based on evaluation of two performance categories, Program Management and Services, and Overall Management, using the evaluation criteria shown in Attachments 1 and 2, respectively, and the Levels of Performance, Attachment 3.

B. OBJECTIVES OF THE AWARD FEE.

1. The objective of the award fee provisions of this contract is to afford the Contractor an opportunity to earn fee commensurate with optimum performance. The Contractor is responsible for effective management as well as attaining the highest standards of excellence in performance of this contract.

2. The Award Fee is an amount that may be earned by the Contractor, in whole or in part, based upon an evaluation by the Fee Determination Official (FDO) of the Contractor's performance. Fee associated with overall unsatisfactory performance on a specific task order will be removed from the award fee pool. All evaluated, unearned fee will be removed from the contract at the conclusion of the award fee evaluation.

3. Award Fee Determinations are not subject to the "Disputes" clause of the contract.

4. The FDO may unilaterally change criteria and/or relative importance of criteria covered in the plan, provided the Contractor receives notice of the changes at least thirty (30) calendar days prior to the beginning of the affected evaluation period. The changes may be made without formal modification of the contract.

C. EVALUATION REQUIREMENTS.

1. Both during and at the conclusion of each rating period, the Government will identify specific areas/task orders that may negatively impact the overall performance evaluation. Prior to the FDO's final decision, the Contractor will be given an opportunity to address its own performance during the rating period. Written self-assessments by the Contractor are not required but will be accepted. Accordingly, costs associated with such effort will not be reimbursed under this contract.

2. The first award fee evaluation may be performed after twelve months commencing on the date of award of the contract. Subsequently, award fee evaluations will be performed at six-month intervals, or at the completion of **the last** option year.

3. The Award Fee earned and payable will be determined by the FDO. The estimated time for completion of the Government's evaluation is sixty (60) days after the conclusion of the evaluation period.

D. PERFORMANCE EVALUATION CRITERIA AND RATING GUIDELINES.

1. In order to evaluate the Contractor's performance, general criteria have been developed. This section of the plan highlights the criteria and describes the overall rating process that will be employed.

2. When specific task orders are not completed within an evaluation period, the Government will evaluate the physical completion to date in order to determine the amount of award fee available to be earned. In the event that the performance to date does not provide adequate information to facilitate evaluation of performance, this evaluation and associated award fee will be postponed until the next award fee period as determined by the Contracting Officer. Prior to completion of a specific task order, the maximum award fee that will be made available is 75%. Upon receipt of all required interim close-out information, the remaining award fee will be included in the next rating period.

ATTACHMENT JL.2

UNEXPLODED ORDNANCE (UXO) CLEARANCE PROJECT KAHO'OLAWA ISLAND, HAWAII

SAMPLE PROJECT WRITE UP REFERENCES AND ENCLOSURES

- Ref:**
- (a) Unexploded Ordnance (UXO) Model Clearance Project, Island of Kaho'olawe, Clearance Results Map, current version
 - (b) Navy NAVFAC Design Manual 5.5, General Provisions and Geometric Design for Roads, Streets, Walks, and Open Storage Areas, current version
 - (c) Military Handbook 1005/2, Hydrology, and the Military Handbook 1005/3, Drainage Systems, current version
 - (d) Storm Water Management Plan for Camp Kaho'olawe, Kaho'olawe, Hawaii, (Final), September 1996
 - (e) Topographic Survey-Unexploded Ordnance (UXO) Model Cleanup Map, May 1996
 - (f) Kaho'olawe Use Plan Prepared for Kaho'olawe Island Reserve Commission (KIRC), December 1995
 - (g) *PACNAVFACENGCOM P-74, A-E Guide for Architect Engineer Firms performing services for the DON PACNAVFACENGCOM, November 1996.*
- Encl:**
- (SP-1) Sample Project Eastern Kaho'olawe Ordnance Clearance Limits dtd 06 Feb 1997
 - (SP-2) Sample Project Base Camp Ordnance Clearance Limits dtd 14 Nov 1996
 - (SP-3) (DELETED)
 - (TR-1) Kaho'olawe Roadway Improvement Limits dtd 1 Oct 1996
 - (1) National Register of Historic Places Inventory-Nomination Form, Kaho'olawe Site 104, dtd 4 May 1979 (10 pages).

clearance work. The Contractor shall base all UXO clearance activities on regular time only (ie, no overtime).

- 2) The existing K-1 Road from the Base Camp, at Honokanaia, to Lua Makika has already been improved to satisfactorily complete UXO clearance activities.
- 3) The amount of UXO found and the amount to be Blown In Place (BIP) in each area, shall be as listed in Tables 1 and 2. The remaining UXO that is left after BIP and the UXO remnants 1" x 2" or larger (amount of remnants indicated in Tables 1 and 2), shall be picked up and stored for future treatment (ie, thermal treatment or OB/OD (Open Burn/Open Detonation)). No final treatment of stored material will be required.
- 4) An even distribution of UXO and remnants are within the Sub area(s) listed in Tables 1 and 2.
- 5) No UXO clearance work at the beach landing area will be required.
- 6) Historic preservation services shall be limited to the protection of historic properties during the UXO clearance of the Water Tank Sub-area located within Clearance Area A. The area is shown in enclosure (SP-1). The historic properties to be taken into consideration shall be those which, based on the locations shown on the Kaho'olawe Map in enclosure (SP-1), are located within 1,500 feet of the UXO item requiring BIP. The Kaho'olawe Map is also provided in the Cultural Resources Management Plan for the Kaho'olawe Archaeological District, as listed in Section C, Part 15.0-Reference Documents, of the Request For Proposal (RFP).

b. Existing Conditions.

- 1) Existing contours and slope terrain are shown on enclosures (SP-1) and (SP-2). Additionally, information on the description of the existing surface coverage are indicated in references (d) and (f).
- 2) Descriptive information on the historic properties located within 1500 feet of the Water Tank Sub-area is provided on the National Register of Historic Places (NRHP) nomination forms (enclosures (1) to (6)). Additional information on these historic properties may be found within reference documents listed in Section C, Part 15.0 of the RFP.

d. Roadway Improvements.**1) Design and Construction.**

- (a) The purpose of the roadway improvements are to provide an efficient and reasonable means of transporting equipment, personnel, scrap metal, UXO and other various actions that would be required under this contract.
- (b) The roadway improvements shall consist of a design and construction of the existing access road that leads to the Puu Moaulaiki area from the existing K-1 Road at Lua Makika as indicated in *paragraph 5a*. The limits of the roadway improvements are shown on enclosure (TR-1) and will be based on the following:
 - (1) The existing road shall be improved to a single lane of minimum width of 3.657 m (12-feet). The road shall be designed for very low vehicular traffic with a design speed of 24 km/h (15 mph). The road design shall also include a minimum of one (1) turnaround for this Sample Project.
 - (2) The Contractor shall keep all proposed road and construction activities within the areas cleared of UXO as indicated in reference (a).

2) Grading.

Large quantities of borrow and base course will be required to fill and grade the road as necessary. Therefore, *borrow and base course materials shall be imported from a commercial quarry to preclude environmental testing*. The finished material shall be compacted to its minimum required density.

3) Drainage.

- (a) The design shall minimize low points in the roadway and ensure proper drainage to eliminate any water ponding potential.
- (b) Interceptor swales shall be used on both sides of the roadway cross section to minimize erosion to the compacted surface
- (c) Culverts, if any, shall have a minimum diameter size of 609 mm (24-inch) and sloped to drain.

d. Roadway Improvements.**1) Design and Construction.**

- (a) The purpose of the roadway improvements are to provide an efficient and reasonable means of transporting equipment, personnel, scrap metal, UXO and other various actions that would be required under this contract.
- (b) The roadway improvements shall consist of a design and construction of the existing access road that leads to the Puu Moaulaiki area from the existing K-1 Road at Lua Makika as indicated in *paragraph 5a*. The limits of the roadway improvements are shown on enclosure (TR-1) and will be based on the following:
 - (1) The existing road shall be improved to a single lane of minimum width of 3.657 m (12-feet). The road shall be designed for very low vehicular traffic with a design speed of 24 km/h (15 mph). The road design shall also include a minimum of one (1) turnaround for this Sample Project.
 - (2) The Contractor shall keep all proposed road and construction activities within the areas cleared of UXO as indicated in reference (a).

2) Grading.

Large quantities of borrow and base course will be required to fill and grade the road as necessary. Therefore, *borrow and base course materials shall be imported from a commercial quarry to preclude environmental testing*. The finished material shall be compacted to its minimum required density.

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- (a) The design shall minimize low points in the roadway and ensure proper drainage to eliminate any water ponding potential.
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- (c) Culverts, if any, shall have a minimum diameter size of 609 mm (24-inch) and sloped to drain.

SUMMARY, KEY PERSONNEL EXPERIENCE (PART I)					
Name (Last, First)	Title	Yrs, Mos Exper. w/ this Firm	Yrs, Mos Exper. w/ other Firms	Education Degree(s) /Specialization/Year	Active Registration/ Year First Registered/Discipline

SUMMARY, KEY PERSONNEL EXPERIENCE (PART II)							
Name (Last, First)	Project Name	Project Description	Role on Project	Actual Project Cost	Actual Project Duration	Project Issues of Concern	Owner Name/ Point of Contact/Phone Number

SUMMARY OF COST ESTIMATE

(1) Total Direct Labor		\$	_____
(2) Fringe	_____ %	Applied to	_____ \$
(3) Overhead	_____ %	Applied to	_____ \$
(4) Subtotal (Lines 1+2+3)		\$	_____
(5) Team Subcontracts*		\$	_____
(6) Subcontracts		\$	_____
(7) Travel		\$	_____
(8) Other Direct Costs **			
Material	_____	\$	_____
Equipment	_____	\$	_____
Shipping	_____	\$	_____
Reproduction	_____	\$	_____
Telephone	_____	\$	_____
Computer	_____	\$	_____
_____	_____	\$	_____
_____	_____	\$	_____
Subtotal Other Direct Costs		\$	_____
(9) Subtotal (Lines 5+6+7+8)		\$	_____
(10) G&A Expense	_____ %	Applied to	_____ \$
(11) Subtotal Cost (Lines 4+9+10)		\$	_____
(12) FCCM (if applicable)	_____ %	Applied to	_____ \$
(13) _____ % Prime Contractor Award Fee***		\$	_____
_____ % Cost Reimbursable Subcontracts***		\$	_____
_____ % Fixed Price Subcontracts		\$	_____
Subtotal Award Fee to Prime Contractor		\$	_____
(14) Estimated Cost Plus Award Fee (Lines 11+12+13)		\$	_____
(15) General Excise Tax		Applied to	_____ \$
(16) TOTAL ESTIMATED COST PLUS AWARD FEE (Line 14+15)		\$	_____

(See notes on next page)

Notes for Summary of Cost Estimate:

- * See Section L, paragraph L17 for instructions on completion of mandatory cost breakout forms for team subcontractor effort. The prime contractor shall provide the total subcontract costs on this line of its form and attach a breakdown by function.
- ** All direct costs not included under any other element on this form must be entered here. See Section L, paragraph L17 for further information concerning complete identification of costs.
- *** Not applicable to travel, contractor-acquired property including rentals, FCCM, and subcontracts.

SUMMARY OF COST ESTIMATE

(1) Total Direct Labor		\$	_____
(2) Fringe	_____ % Applied to _____	\$	_____
(3) Overhead	_____ % Applied to _____	\$	_____
(4) Subtotal (Lines 1+2+3)		\$	_____
(5) Team Subcontracts*		\$	_____
(6) Subcontracts		\$	_____
(7) Travel		\$	_____
(8) Other Direct Costs **			
Material	_____	\$	_____
Equipment	_____	\$	_____
Shipping	_____	\$	_____
Reproduction	_____	\$	_____
Telephone	_____	\$	_____
Computer	_____	\$	_____
_____	_____	\$	_____
_____	_____	\$	_____
Subtotal Other Direct Costs		\$	_____
(9) Subtotal (Lines 5+6+7+8)		\$	_____
(10) G&A Expense	_____ % Applied to _____	\$	_____
(11) Subtotal Cost (Lines 4+9+10)		\$	_____
(12) FCCM (if applicable)	_____ % Applied to _____	\$	_____
(13) _____ % Prime Contractor Award Fee***		\$	_____
_____ % Cost Reimbursable Subcontracts***		\$	_____
_____ % Fixed Price Subcontracts		\$	_____
Subtotal Award Fee to Prime Contractor		\$	_____
(14) Estimated Cost Plus Award Fee (Lines 11+12+13)		\$	_____
(15) General Excise Tax	Applied to _____	\$	_____
(16) TOTAL ESTIMATED COST PLUS AWARD FEE (Line 14+15):		\$	_____

(See notes on next page)

Notes for Summary of Cost Estimate:

- * See Section L, paragraph L17 for instructions on completion of mandatory cost breakout forms for team subcontractor effort. The prime contractor shall provide the total subcontract costs on this line of its form and attach a breakdown by function.
- ** All direct costs not included under any other element on this form must be entered here. See Section L, paragraph L17 for further information concerning complete identification of costs.
- *** Not applicable to travel, contractor-acquired property including rentals, FCCM, and subcontracts.

GENERAL COUNSEL OF THE NAVY LETTER
OF
JANUARY 31, 1997

Enclosure (7) of
Amendment No. 0004



GENERAL COUNSEL OF THE NAVY
WASHINGTON, D.C. 20350-1000

January 31, 1997

R. Keoni Fairbanks
Executive Director
Kaho'olawe Island Reserve Commission
33 South King Street
Room 501
Honolulu, HI 96813

Dear Mr. Fairbanks:

Thank you for your letter of January 21, 1997 to Mr. James Putnam, Contracting Officer, Naval Facilities Engineering Command, Pacific Division, Pearl Harbor, Hawaii, with regard to the Unexploded Ordnance Clearance Project, Kaho'olawe Island Reserve. I am responding on behalf of the Department of the Navy (Navy) to your request for an explanation of why Section 8127 of P.L. 103-335, "Preference for Local and Small Businesses to Carry out Environmental Restoration and Remediation of Kaho'olawe Island, Hawaii" is not referenced in the Request for Proposals for the clean-up project.

Section 8127 provides:

(a) PREFERENCE REQUIRED.-In entering into contracts with private entities to carry out environmental restoration and Remediation of Kaho'olawe Island, Hawaii, and the waters surrounding that island, the Secretary of the Navy shall, to the maximum extent practicable, give a preference to small business concerns and small disadvantaged business concerns located in the State of Hawaii. In giving the preference, the Secretary shall give especial preference to businesses owned by Native Hawaiians.

(b) DEFINITIONS.-In this section:

(1) The term "small business concern" means a business concern meeting the requirements of section 3 of the Small Business Act (15 U.S.C. 632).

(2) The term "small disadvantaged business concern" means the business concerns referred to in section 7(d)(1) of such Act (15 U.S.C. 637(d)(1)).

(3) The term "Native Hawaiian" means any individual who is a descendent of the aboriginal people who, prior to 1778, occupied and exercised sovereignty in the area that now comprises the State of Hawaii.

In a 1995 letter to the Navy, Senator Akaka stated his intent that the provision apply to the award of subcontracts for the clean-up effort. Accordingly, the Request for Proposals does

require that prime contractors discuss their "established commitments (if any) to small and small disadvantaged business concerns located in the State of Hawaii." With respect to the need to include the requirement for an "especial" preference for Native Hawaiian-owned businesses, the Navy and the Department of Justice considered that question in connection with the Administration's on-going review of federal affirmative action programs.

Based on its review of information submitted by the Navy concerning subcontract awards to Native Hawaiian-owned firms under prior contracts, the Department of Justice believed that Native Hawaiian-owned firms would receive a fair share of subcontract awards for the current clean-up effort without a special preference. It advised the Navy that any special preference for Native Hawaiian-owned businesses would be subject to constitutional challenge under the strict scrutiny standard of Adarand Constructors, Inc. v. Peña, 115 S. Ct. 2097 (1995), and that, in light of these circumstances, the Navy need not include in future requests for performance a special preference for Native Hawaiian firms that is greater than that afforded to small disadvantaged businesses. Accordingly, the Navy did not include the special preference in the final version of the Request for Proposals.

Sincerely,



Steven S. Honigman

Copy to:
Mr. Putnam

HTRW REMEDIAL ACTION
WORK BREAKDOWN STRUCTURE (WBS)
DATA DICTIONARY, STANDARD DESCRIPTIONS

Enclosure (8) of
Amendment No. 0004

HTRW Remedial Action Work Breakdown Structure

February 1997

**Developed By The
Hazardous, Toxic, Radioactive Waste
Interagency Cost Engineering Group**

**Army Corps of Engineers
Navy
Air Force
Environmental Protection Agency
Department of Energy**

FEBRUARY 1997

AMENDMENT NO. 0004

DATA DICTIONARY
STANDARD DESCRIPTIONS
HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

This document contains standard descriptions for the Hazardous, Toxic, and Radioactive Waste (HTRW) Remedial Action (RA) Work Breakdown Structure (WBS). A standard description is included for the second (System) and third (Subsystem) levels of the HTRW RA WBS. This "Remedial Action" WBS is intended to be used for all types of remedial action (construction) contracts for "Remedial Action", "Emergency Response", "Rapid Response", "Immediate Response", "Interim Remediation", "Preplaced Remedial Action", "Removal Action", "Total Environmental Restoration Contracts (TERC)", "Disposal", "Environmental", and others.

The HTRW RA WBS consists of four hierarchical levels. This document describes Level 2 (System) and Level 3 (Subsystem) under Level 1 (Account 331XX "HTRW Remedial Action (Construction)"). Further Level 1 breakdown (not included in this document) consists of 332XX "Engineering During Construction" and "333XX "Supervision & Administration (S&A) (Construction Management)". There are twenty-one (21) Level 2 Systems (331XX 01 through 331XX 22) described, with number 33XXX 16 reserved for future use. Note that because certain activities occur more than once in the WBS, both Levels 2 and 3 must be read and considered in order to select the correct item. Example: Transportation of HTRW to a treatment plant (a Level 3 Subsystem) occurs several times in the RA WBS. In order to make the correct item selection for transportation, Level 2 Systems (where transportation is a Subsystem) must be read and considered.

This document includes the unit of measure (UOM) in both English and Metric and a standard description for each RA WBS item in Level 3 (Subsystem). Units of measure

DATA DICTIONARY
STANDARD DESCRIPTIONS
HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

This document contains standard descriptions for the Hazardous, Toxic, and Radioactive Waste (HTRW) Remedial Action (RA) Work Breakdown Structure (WBS). A standard description is included for the second (System) and third (Subsystem) levels of the HTRW RA WBS. This "Remedial Action" WBS is intended to be used for all types of remedial action (construction) contracts for "Remedial Action", "Emergency Response", "Rapid Response", "Immediate Response", "Interim Remediation", "Preplaced Remedial Action", "Removal Action", "Total Environmental Restoration Contracts (TERC)", "Disposal", "Environmental", and others.

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This document includes the unit of measure (UOM) in both English and Metric and a standard description for each RA WBS item in Level 3 (Subsystem). Units of measure

assigned to Level 3 characterize Subsystem costs. Standard definitions for Level 4 (Assembly Category) are not included in this document. Units of measure for the treatment categories (331XX 11 through 331XX 15) generally indicate the total quantity of material treated in CY (M3), MGA (KLI), etc.

The HTRW RA WBS considers all possible construction items by including the "Other" item at all levels. All items not directly described by the WBS titles are included in the "Other" items as selected by the user (Cost Engineer) for the project estimate. The "Other" items are designated by the number "9X." The user is to replace the "X" with a number, 0 through 9, and assign an appropriate item description and unit of measure. Minimize the use of the "Other" 9X items. Operation which is of short term and is integral with remedial action or construction activities is to be included in Account 331XX at the appropriate items. For example, to incinerate soil, construction activities include excavation and hauling of contaminated soil to the incinerator, operation of the incinerator, and loading and hauling of the treated material after incineration to a landfill or disposal facility. Another example is a one year operation period which typically is included with the construction contract of projects involving treatment technologies. In such cases, the operation is integral with remedial action construction activities, and thus is included in Remedial Action (Construction) Account 331XX. Operation activities which are long-term, and are not integral with remedial action are accounted for in a separate document as Account 34XXX.

Please note the following for Data Dictionary:

NOTE 1: For the five character Account Number (Level 1), the first three characters are from the Army Corps of Engineers Superfund accounting system. The last 2 characters are user defined for estimating flexibility.

NOTE 2: Account 32XXX (HTRW Pre Construction and Project Management Activities) includes Project Management, Investigations, and Remedial Design. Account 32XXX is not included in this document.

NOTE 3: Account 33XXX (HTRW Construction Activities) includes Remedial Action (including operation during construction), Engineering During Construction (EDC), and Supervision and Administration (S&A) (Construction Management).

NOTE 4: Account 34XXX (HTRW Post Construction and Financial Closeout Activities) includes Post Construction Operation and Maintenance (O&M) and Fiscal/Financial Closeout. Account 34XXX is not included in this document.

NOTE 5: The Superfund and Work for Others Programs use Account Numbers 32XXX, 33XXX, and 34XXX. The DERP (Defense Environmental Restoration Program) and BRAC ER (Base Realignment and Closure Environmental Restoration) Programs use corresponding Account Numbers 72XXX, 73XXX, and 74XXX, which are not included in this document.

NOTE 6: Unit of Measure (UOM) Definitions:

English

EA - Each
SY - Square Yards
ACR - Acres
CY - Cubic Yards
LF - Linear Feet
MGA - Thousand Gallons
TON - Tons
MO - Months
HR - Hours
GAL - Gallons
CF - Cubic Feet
LB - Pounds
SF - Square Feet

Metric

EA - Each
M2 - Square Meters
HEC - Hectars
M3 - Cubic Meters
M - Meters
KLI - Kilo Liters
MT - Metric Tons
MO - Months
HR - Hours
LIT - Liters
M3 - Cubic Meters
KG - Kilo Grams
M2 - Square Meters

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HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX					HTRW REMEDIAL ACTION Account 33XXXX includes HTRW remedial action (construction) work for all programs and includes operation which occurs during construction (remedial action). Account 33XXXX excludes project management at all phases and excludes pre construction investigations and remedial design which are all in Account 32XXXX. Account 33XXXX excludes post construction Operation and Maintenance (O&M) which is in Account 34XXXX.
331XX	01				MOBILIZATION AND PREPARATORY WORK Includes all preparatory work required during remedial action or construction. This includes submittals; construction plans; mobilization of personnel, facilities and equipment; construction of temporary facilities; temporary utilities; temporary relocations and setup of decontamination facilities and construction plant.
331XX	02				MONITORING, SAMPLING, TESTING, AND ANALYSIS Provides for all work during remedial action associated with air, water, sludge, solids and soil sampling, monitoring, testing, and analysis. Includes sample taking, shipping samples and sample analysis by on-site and off-site laboratory facilities.
331XX	03				SITework Sitework during remedial action consists of site preparation, site improvements, and site utilities. Site preparation includes demolition, clearing, and earthwork. Site improvements include roads, parking, curbs, gutters, walks and other hardscaping. Site utilities include water, sewer, gas, other utility distribution. Also includes new fuel storage tanks. All work involving contaminated or hazardous material is excluded from this system. Storm drainage involving contaminated surface water is included under "Surface Water Collection and Control" (331XX.05). Note that topsoil, seeding, landscaping and reestablishment of existing structures altered during remediation activities are included in "Site Restoration" (331XX.20).

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	04				ORDNANCE AND EXPLOSIVE-CHEMICAL WARFARE MATERIAL (OE-CWM) REMOVAL AND DESTRUCTION Includes the locating, removing, and destruction of all ordnance, conventional or chemical, fused or unfused, related scrap, propellants, and delivery vehicles during remedial action. Providing for public involvement, providing subsurface data for the delineating the extent of the contamination. Also includes the construction of temporary explosive storage bunkers and surveys.
331XX	05				SURFACE WATER COLLECTION AND CONTROL Provides for the collection and control of contaminated surface water through the construction of storm drainage piping and structures, erosion control measures, and civil engineering structures such as berms, dikes and levees. Includes the collection of surface water through the construction of lagoons, basins, tanks, dikes, and pump systems. Includes transport to treatment plant.
331XX	06				GROUNDWATER COLLECTION AND CONTROL Provides for the remedial action collection and control of contaminated groundwater through the construction of piping, wells, trenches, slurry walls, sheet piling and other physical barriers. Includes the collection of groundwater through the construction of lagoons, basins, tanks, dikes, and pump systems. Includes transport to treatment plant.
331XX	07				AIR POLLUTION/GAS COLLECTION AND CONTROL Includes theremedial action construction for the collection and control of gas, vapor and dust.
331XX	08				SOLIDS COLLECTION AND CONTAINMENT Provides for exhuming and handling of solid hazardous, toxic and radioactive waste (HTRW) during remedial action through excavation, sorting, stockpiling, and filling containers. Provides for containment of solid waste through the construction of multilayered caps as well as dynamic compaction of burial grounds, cribs, or other waste disposal units. Includes transport to treatment plant.
331XX	09				LIQUIDS/SEDIMENTS/SLUDGES COLLECTION AND CONTAINMENT Includes collection during remedial action of HTRW-contaminated liquids and sludges through dredging and vacuuming, and the furnishing and filling of portable containers. Includes the containment of liquids and sludges through the construction of lagoons, basins, tanks, dikes, and drain system. Includes transport to treatment plant.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	10				DRUMS/TANKS/STRUCTURES/MISCELLANEOUS DEMOLITION AND REMOVAL Includes the demolition and removal during remedial action of HTRW contaminated drums, tanks, contaminated paint removal, and other structures by excavation and downsizing. Does not include filling portable hazardous waste containers or transport of wastes to treatment or disposal facilities. See "Solids Collection and Containment" (331XX.08), "Disposal (Other than Commercial)" (331XX.18), and "Disposal (Commercial)" (331XX.19)
331XX	11				BIOLOGICAL TREATMENT Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.11.(01.-14.)). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.11.50.). Biological treatment is the microbial transformation of organic compounds. Biological treatment processes can alter inorganic compounds such as ammonia and nitrate, and can change the oxidation state of certain metal compounds. Includes in-situ biological treatment such as land farming as well as activated sludge, composting, trickling filters, anaerobic, and aerobic digestion. Includes process equipment and chemicals required for treatment. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).
331XX	12				CHEMICAL TREATMENT Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.12.(01.-14.)). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.12.50.). Chemical treatment is the process in which hazardous wastes are chemically changed to remove toxic contaminants from the environment. Type of treatment included in this system are oxidation/reduction, solvent extraction, chlorination, ozonation, ion exchange, neutralization, hydrolysis, photolysis, dechlorination, and electrolysis reactions. Includes process equipment and chemicals required for treatment. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENGINE(T)	STANDARD DESCRIPTION
331XX	13				PHYSICAL TREATMENT Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.13.(01.-32.)). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.13.50.). These treatment processes are the physical separation of contaminants from solid, liquid or gaseous waste streams. The treatments are applicable to a broad range of contaminant concentrations. Physical treatments generally do not result in total destruction or separation of the contaminants in the waste stream, consequently post-treatment is often required. Type of physical treatment included in this system are filtration, sedimentation, flocculation, precipitation, equalization, evaporation, stripping, soil washing, and carbon adsorption. Includes process equipment and chemicals required for treatment. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).
331XX	14				THERMAL TREATMENT Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.14.(01.-07.)). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.14.50.). Thermal treatment is the destruction of wastes through exposure to high temperature in combustion chambers and energy recovery devices. Several processes capable of incinerating a wide range of liquid and solid wastes include fluidized bed, rotary kiln, multiple hearth, infrared, circulating bed, liquid injection, pyrolysis, plasma torch, wet air oxidation, supercritical water oxidation, molten salt destruction, and solar detoxification. Includes process equipment and chemicals required for treatment. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	15				STABILIZATION/FIXATION/ENCAPSULATION Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.15.(01.-07.)). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.15.50.). Stabilization/fixation/encapsulation processes attempt to improve the handling and physical characteristics of the wastes, decrease the surface area, limit the solubility of any pollutants and detoxify contained pollutants. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	16				RESERVED FOR FUTURE USE
331XX	17				DECONTAMINATION AND DECOMMISSIONING (D&D) Decontamination and decommissioning during remedial action are all activities associated with shutdown and final cleanup of a nuclear or other facility. Includes facility shutdown and dismantling activities, preparation of decommissioning plans, procurement of equipment and materials, research and development, spent fuel handling, and hot cell cleanup.
331XX	18				DISPOSAL (OTHER THAN COMMERCIAL) Includes operation (separate items for each subsystem disposal method) of the plant facility during the remedial action phase, based on the volume of waste material disposed, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.18.(01.-10.)). Includes a separate item for the construction of a permanent disposal facility, including permanent disposal equipment, which is purchased for one disposal facility only (331XX.18.15.). Disposal (Other than Commercial) provides for the final placement of HTRW or ordnance at facilities owned or controlled by the Government. An example would be the disposal of wastes through burial at a DOE nuclear facility or ordnance disposal at DOD facilities. Includes handling, disposal fees, and transportation to the final Destruction/Disposal/Storage facility. Excluded is the transportation to a facility for treatment prior to final disposal. For transportation prior to final disposal see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04). Disposal may be accomplished through the use of secure landfills, burial grounds, trench, pits, above ground vault, underground vault, underground mine/shaft, tanks, pads (tumulus / retrievable storage, other), storage buildings or protective cover structures, cribs, deep well injection, incinerator, or other.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM (ENGINE)	STANDARD DESCRIPTION
331XX	19				DISPOSAL (COMMERCIAL) Commercial disposal during remedial action provides for the final placement of HTRW at third party commercial facilities that charge a fee to accept waste depending on a variety of waste acceptance criteria. Fees are assessed based on different waste categories, methods of handling, and characterization. Disposal may be accomplished through the use of secure landfills, surface impoundments, deep well injection, or incineration. Includes transportation to the final Destruction/Disposal/Storage facility. Excludes transportation to a facility for treatment prior to disposal. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).
331XX	20				SITE RESTORATION Site restoration during remedial action includes topsoil, seeding, landscaping, restoration of roads and parking, and other hardscaping disturbed during site remediation. Note that all vegetation and planting is to be included as well as the installation of any site improvement damaged or altered during construction. All vegetation and planting for the purpose of erosion control during construction activities should be placed under "Erosion Control" (331XX.05.13). Treated soil used as backfill will be placed under "Disposal (Other than Commercial)" (331XX.18). All new site improvements, those not disturbed during construction, are to be included under "Sitework" (331XX.03).
331XX	21				DEMobilIZATION Provides for all work associated with remedial action plant takedown and removal of temporary facilities, utilities, equipment, material, and personnel.
331XX	22				GENERAL REQUIREMENTS (Optional Breakout) Consists of general remedial action requirements which are not specifically identifiable in the other systems such as indirect, overhead, profit, and other general requirements. This system is OPTIONAL . It may be used to separately show general requirements; however, if it is not used, general requirements must be distributed throughout in the other systems.
331XX	9x				OTHER (Use Numbers 90-99) Includes all Hazardous, Toxic, Radioactive Waste Remedial Action work not described by the above listed systems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM (ENGINEER)	STANDARD DESCRIPTION
331XX	01				MOBILIZATION AND PREPARATORY WORK Includes all preparatory work required during remedial action or construction. This includes submittals, construction plans, mobilization of personnel, facilities and equipment, construction of temporary facilities, temporary utilities, temporary relocations, and setup of decontamination facilities and construction plant.
331XX	01	01	Each item mobilized	EA (EA)	MOBILIZATION OF CONSTRUCTION EQUIPMENT AND FACILITIES Mobilization of equipment and facilities during remedial action is the transport, initial assembly and setup of construction equipment prior to project startup. Work associated with mobilization will include preparation of equipment for transport, equipment transportation and setup, manifests, tolls, permits, escort vehicles, drivers, and equipment operators.
331XX	01	02	Number of personnel	EA (EA)	MOBILIZATION OF PERSONNEL Mobilization of personnel during remedial action includes relocation of supervisory personnel and workmen.
331XX	01	03	Each plan	EA (EA)	SUBMITTALS/IMPLEMENTATION PLANS Submittal/implementation plans is work incurred during remedial action for obtaining all necessary plans and permits. These include QA/QC plans, work plans, shop drawings, demolition plans, environmental control plans, pollution control plans, site safety and health plans, site security plan, materials handling/transportation/disposal plan and all local, state, and federal permits.
331XX	01	04	Each facility	EA (EA)	SETUP/CONSTRUCT TEMPORARY FACILITIES Setup/construct temporary facilities during remedial action includes procurement, setup, and construction of office trailers, storage areas, fencing, access roads, decontamination facilities, decontamination staging areas and other temporary facilities.
331XX	01	05	Each utility	EA (EA)	CONSTRUCT TEMPORARY UTILITIES Temporary utilities are power and lighting, telephone, water, sewer and gas services that will be in place only during construction or remedial action.
331XX	01	06	Each relocation	EA (EA)	TEMPORARY RELOCATIONS OF ROADS/ STRUCTURES/UTILITIES Provides for the temporary relocation during remedial action of roads, bridges, buildings, structures and utilities. For re-establishing roads/structures/utilities, see "Re-establish Roads/Structures/Utilities" (331XX.20.03).

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	01	07	Each plant	EA (EA)	CONSTRUCTION PLANT ERECTION Construction plant erection during remedial action provides for the transport, erection and testing of construction plants prior to startup. Construction plants can include concrete batch plants, block plants, asphalt plants, screening plants, crushing plants and pugmills.
331XX	01	08	Each control	EA (EA)	INSTITUTIONAL CONTROLS Measures taken during remedial action to protect the public health and safety as an interim action at an HTRW site. This can include such measures as posting warning signs, placing fencing around the site, etc.
331XX	01	09	Each resident or user	EA (EA)	ALTERNATE WATER SUPPLY Includes providing residents or other users during remedial action with water if the existing water source has been contaminated. This could include providing bottled water or installing a replacement water distribution system, etc.
331XX	01	10	Each resident or user	EA (EA)	POPULATION RELOCATION Includes relocation during remedial action of residents or users due to contamination of a site.
331XX	01	9x			OTHER (Use Numbers 90-99) Includes remedial action mobilization and preparatory work not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	02				MONITORING, SAMPLING, TESTING, AND ANALYSIS Provides for all work during remedial action associated with air, water, sludge, solids and soil sampling, monitoring, testing, and analysis. Includes sample taking, shipping samples and sample analysis by on-site and off-site laboratory facilities.
331XX	02	01	Each monitoring station	EA (EA)	METEOROLOGICAL MONITORING Meteorological monitoring during remedial action includes measurement of wind, precipitation, and barometric pressure as well as other parameters. Includes the procurement, setup, testing, and operation of meteorological stations and instrument shelters.
331XX	02	02	Each monitoring event	EA (EA)	RADIATION MONITORING Radiation monitoring during remedial action includes the measuring of radiation of personal body count levels and at specified site areas. Body count monitoring includes personal dosimetry systems, hand and/or foot counters and whole body counters. Area monitoring includes remote monitoring, alarm systems, survey monitoring and special case area monitoring.
331XX	02	03	Each monitoring event	EA (EA)	AIR MONITORING AND SAMPLING Air monitoring and sampling during remedial action is the monitoring for detection of HTRW to ensure compliance with clean air regulations. Includes monitoring of asbestos, HTRW, contaminated dust gases and vapors. See "Asbestos Abatement" (331XX.10.04) for air monitoring during asbestos abatement.
331XX	02	04	Each monitoring well	EA (EA)	MONITORING WELLS Provides for all work associated with the drilling, construction, and operation during remedial action construction of monitoring wells.
331XX	02	05	Each sample	EA (EA)	SAMPLING SURFACE WATER/GROUNDWATER/LIQUID WASTE Sampling surface water/groundwater/liquid waste during remedial action includes the work associated with the retrieval of liquid waste samples. This also includes sampling of leachate and treatment process effluents, and sample shipping.
331XX	02	06	Each sample	EA (EA)	SAMPLING SOIL AND SEDIMENT Sampling soil and sediment during remedial action includes all work associated with the retrieval of surface and subsurface soil and sediment/sludge samples. This includes any subsurface exploration, split spoon sampling, auger boring samples, the digging of sampling test pits and shipping to testing lab.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	02	07	Each sample	EA (EA)	SAMPLING ASBESTOS Sampling asbestos during remedial action includes all activities associated with the retrieval of asbestos samples, excluding air sampling, which is covered under "Air Monitoring and Sampling" (331XX.02.03). Includes shipping to testing labs.
331XX	02	08	Each sample	EA (EA)	SAMPLING RADIOACTIVE CONTAMINATED MEDIA Sampling radioactive contaminated media during remedial action includes all activities associated with the gathering of contaminated radioactive media samples. This includes materials, labor and equipment for taking samples, plus packaging and shipping to testing lab.
331XX	02	09	Each analysis	EA (EA)	LABORATORY CHEMICAL ANALYSIS Laboratory chemical analysis during remedial action consists of work by an independent laboratory for analysis of contaminated samples. This includes air/industrial hygiene analysis, general water and wastewater quality analysis, priority pollutant analysis (all media), biomonitoring and bioassay analysis, Resource Conservation and Recovery Act (RCRA) analysis, miscellaneous waste analysis, and soil and sediment analysis. Does not include storage and disposal of lab samples. See "Off-Site Laboratory Facilities" (331XX.02.14).
331XX	02	10	Each analysis	EA (EA)	RADIOACTIVE WASTE ANALYSIS Radioactive waste analysis consists of work during remedial action by an independent laboratory for the analysis of radioactive contaminated waste samples. This includes analysis of radioactive animal tissue/bone, air, liquid, urine/feces and vegetation/sediment/soil. Does not include storage and disposal of lab samples. See "Off-Site Laboratory Facilities" (331XX.02.14).
331XX	02	11	Each test	EA (EA)	GEOTECHNICAL TESTING Geotechnical testing during remedial action consists of work by an independent laboratory for the analysis of soil properties. Included are analysis of shear strength, permeability, consolidation and soil classification.
331XX	02	12	Each Instrument	EA (EA)	GEOTECHNICAL INSTRUMENTATION Geotechnical instrumentation during remedial action is used to record measurable changes in soil, surface water and groundwater. Geotechnical instrumentation includes piezometers, inclinometers, settlement gauges, and vadose zone monitors.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	02	13	Each laboratory	EA (EA)	ON-SITE LABORATORY FACILITIES Provides during remedial action rental/ownership, setup, certification/approval/evaluation, equipment, and operation during construction of an on-site laboratory service.
331XX	02	14	Each laboratory	EA (EA)	OFF-SITE LABORATORY FACILITIES Provides during remedial action for the storage and/or disposal of contaminated samples at an off-site laboratory. Commercial laboratory analysis fees are included in "Laboratory Chemical Analysis" (331XX.02.09) and "Radioactive Waste Analysis" (331XX.02.10).
331XX	02	9X			OTHER (Use Numbers 90-99) Includes all monitoring, sampling, testing, and analysis during remedial action not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENGINE(T)	STANDARD DESCRIPTION
331XX	03				SITework Sitework during remedial action consists of site preparation, site improvements, and site utilities. Site preparation includes demolition, clearing, and earthwork. Site improvements include roads, parking, curbs, gutters, walks and other hardscaping. Site utilities include water, sewer, gas and other utility distribution. Also includes new fuel storage tanks. All work involving contaminated or hazardous substances is excluded from this system. Storm drainage involving contaminated surface water is included under "Surface Water Collection and Control" (331XX.05). Note that topsoil, seeding, landscaping and reestablishment of existing structures altered during remediation activities are included in "Site Restoration" (331XX.20).
331XX	03	01	Area of demolition	SY (M2)	DEMOLITION Demolition during remedial action is the removal of existing structures, pavements, underground utilities, and other miscellaneous items. Also includes handling, loading, hauling, and landfill dumping fees. Excludes any work involving contaminated or hazardous materials.
331XX	03	02	Total area to cleared and grubbed	ACR (HEC)	CLEARING AND GRUBBING Construction during remedial action. Clearing and grubbing is the removal of trees, stumps, vegetation, and other unsuitable organic material. Excludes any work involving contaminated or hazardous materials.
331XX	03	03	Volume of material	CY (M3)	EARTHWORK Construction during remedial action. Includes stripping topsoil, excavation, backfill, compaction, fine grading, hauling spoil, importation of borrow material and topsoil. Excludes any work involving contaminated or hazardous materials.
331XX	03	04	Area of surfacing	SY (M2)	ROADS/PARKING/CURBS/WALKS Construction during remedial action. Roads/parking/curbs/walks include bituminous, aggregate, and concrete surfacing as well as costs for base courses, geotextile fabrics, curbs and gutters, striping, guard rails and barricades.
331XX	03	05	Total length of fence	LF (M)	FENCING Construction during remedial action. Includes augering post holes, gate posts, line posts, top rail, fabric, apron and gates.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM (ENGINEET)	STANDARD DESCRIPTION
331XX	03	06	Total length of distribution	LF (M)	ELECTRICAL DISTRIBUTION Construction during remedial action. Includes wire, conduit, fittings, manholes, site lighting fixtures, pole base/foundations, trenching, backfill, testing, transformer, switchgear, aerial distribution, underground distribution and connection fees. Includes distribution up to the point of connection to the treatment equipment's main power or control panel. Excludes temporary connections.
331XX	03	07	Total length of distribution	LF (M)	TELEPHONE/COMMUNICATION DISTRIBUTION Construction during remedial action. Includes wire, conduit, fittings, manholes, trenching, backfill, testing, and connection fees. Includes distribution up to the point of connection to the treatment equipment's main power or control device (panel, valve, etc.). Excludes temporary connections.
331XX	03	08	Total length of distribution	LF (M)	WATER/SEWER/GAS DISTRIBUTION Construction during remedial action. Includes piping, fittings, valves, manholes, excavation, backfill, and connection fees. Includes distribution up to the point of connection to the treatment equipment's main control device (valve, etc.). Excludes temporary connections.
331XX	03	09	Total length of distribution	LF (M)	STEAM AND CONDENSATE DISTRIBUTION Construction during remedial action. Includes piping, fittings, insulation, valves, testing, pipe supports, steam tunnel, connection fees, excavation and backfill. Includes distribution up to the point of connection to the treatment equipment's main control device (valve, etc.). Excludes temporary connections.
331XX	03	10	Total length of distribution	LF (M)	FUEL LINE DISTRIBUTION Construction during remedial action. Includes piping, fittings, valves, manhole/valve box, testing, connection fees, excavation and backfill. Includes distribution up to the point of connection to the treatment equipment's main control device (valve, etc.). Excludes temporary connections.
331XX	03	11	Total length of drainage/subdrainage channels	LF (M)	STORM DRAINAGE/SUBDRAINAGE Construction during remedial action. Includes piping, manholes, junction boxes, invert construction, grates, covers, headwalls, flumes, rip rap, excavation, backfill, and testing. Excludes any work involving hazardous or contaminated materials.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENGINE(MET)	STANDARD DESCRIPTION
331XX	03	12	Area of structure	SF (M2)	PERMANENT COVER STRUCTURE OVER CONTAINMENT AREA Includes the remedial action construction of a permanent structure over a solid waste containment area. Examples would be the construction of an asphalt parking lot over a RCRA cap or an air-supported structure over a contaminated excavation.
331XX	03	13	Total area of borrow pits and/or haul roads	ACR (HEC)	DEVELOPMENT OF BORROW PIT/HAUL ROADS Includes all work associated with the remedial action construction of borrow pit and haul roads such as clearing, earthwork, storm drainage, design, and testing.
331XX	03	14	Each tank	EA (EA)	FUEL STORAGE TANKS (NEW) Construction during remedial action. Includes new fuel storage tanks and associated fill/vent piping, overflow protection valves, spill protection systems, alarms, manways, concrete pad and anchors, and miscellaneous straps and fasteners.
331XX	03	15	Total survey area of historic property to be protected	ACR (HEC)	HISTORIC PROPERTY PROTECTION Includes work associated with the protection of historic properties during remedial actions. Historic property protection work includes survey, recording, evaluation of significance, determination of potential effect, protection decision-making, monitoring, data recovery, and associated documentation.
331XX	03	16	Total survey area of natural resource to be protected	ACR (HEC)	NATURAL RESOURCE PROTECTION Includes work associated with the protection of natural resources during remedial actions. Natural resource protection work includes identification of resources to be protected, consultation and protection decision-making, implementation of mitigative measures where appropriate, and associated documentation.
331XX	03	9X			OTHER (Use Numbers 90-99) Includes remedial action sitework not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	04				ORDNANCE AND EXPLOSIVE - CHEMICAL WARFARE MATERIAL (OE - CWM) REMOVAL AND DESTRUCTION Includes the locating, removing, and destruction of all ordnance, conventional or chemical, fused or unfused, related scrap, propellants, and delivery vehicles during remedial action. Providing for public involvement, providing subsurface data for the delineating the extent of the contamination. Also includes the construction of temporary explosive storage bunkers and surveys.
331XX	04	01	Area of Removal	ACR (HEC)	ORDNANCE REMOVAL AND DESTRUCTION Includes locating, excavation, and destruction of all types of ordnance and ordnance related items or scrap during remedial action. Locating includes the use of existing technology or approved innovative technology. Destruction includes blow in place, on site open burn/open detonation areas, or removal to an off site location for disposal/destruction. Excavation includes the use of conventional heavy equipment, specialty equipment designed to remove ordnance, and hand methods.
331XX	04	9x			OTHER (Use Numbers 90-99) Includes all remedial action ordnance removal and destruction not described by the above listed subsystem.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	05				SURFACE WATER COLLECTION AND CONTROL Provides for the remedial action collection and control of contaminated surface water through the construction of storm drainage piping and structures, erosion control measures, and civil engineering structures such as berms, dikes, and levees. Includes the collection of surface water through the construction of lagoons, basins, tanks, dikes, and pump systems. Includes transport to treatment plant.
331XX	05	01	Length of berm/dike	LF (M)	BERMS/DIKES Construction during remedial action. Berms and dikes are used to control contaminated surface water by diverting its flow. Its primary purpose in environmental remedial action is the diversion of surface runoff that has entered a contaminated area and must be collected. Includes excavation and backfill, hauling, drainage facing materials, etc.
331XX	05	02	Area of one side of the wall	SF (M2)	FLOODWALLS Construction during remedial action. Floodwalls are structures used to protect land from flooding and inundation. Includes excavation and backfill, hauling, concrete or other structures, etc.
331XX	05	03	Length of levee	LF (M)	LEVEES Construction during remedial action. Levees are used to prevent a body of contaminated water from overflowing. Includes excavation and backfill, hauling, drainage facing materials, etc.
331XX	05	04	Length of terraces/benches	LF (M)	TERRACES AND BENCHES Construction during remedial action. Terraces and benches are used for the control of contaminated surface water runoff by intercepting the flow of water before it causes erosion. Includes site preparation, excavation and backfill, hauling, soil stabilization, geotechnical testing, drainage facing materials, etc.
331XX	05	05	Length of channels/waterways	LF (M)	EXCAVATION FOR CHANNELS/WATERWAYS (SOIL/ROCK) Includes remedial action excavation of soil or rock, stockpiling, loading, and hauling.
331XX	05	06	Length of chutes and flumes	LF (M)	CHUTES OR FLUMES Construction during remedial action. Chutes and flumes are natural or man-made channels that divert contaminated water away from a given area. Includes grading, earthwork, concrete, formwork, reinforcing steel, and rip rap.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENGINE(T)	STANDARD DESCRIPTION
331XX	05	07	Length of barriers	LF (M)	SEDIMENT BARRIERS Construction during remedial action. Sediment barriers control the amount of sediments that are suspended and transported by the flow of contaminated surface water. Includes silt fencing, installation of straw bales, and excavation/grading of temporary sediment basins.
331XX	05	08	Length of drainage	LF (M)	STORM DRAINAGE Includes remedial action construction of piping, junction boxes, manholes, inlets, invert construction, grates, covers, headwalls, rip rap, excavation, and backfill.
331XX	05	09	Area of facility	ACR (HEC)	LAGOONS/BASINS/TANKS/DIKES/PUMP SYSTEM Construction during remedial action of lagoons/basins/tanks/dikes are used for the storage of liquid wastes. Includes earth structures, liners, spillways, intake/outlet structures, underground tanks, aboveground tanks, concrete retention basins, and overtopping alarm systems. Also includes construction of pumping stations and controls, lift stations and controls, manholes, piping and fittings, hosing, and holding tanks.
331XX	05	10	Volume of waste material	MGA (KLI)	PUMPING/DRAINING/COLLECTION Includes work associated with pumping or draining aboveground or underground tanks and basins during remedial action.
331XX	05	11	Volume of waste material	MGA (KLI)	TRANSPORT TO TREATMENT PLANT Transport to treatment plant during remedial action includes equipment, materials, and labor for hauling, loading and unloading of liquid wastes.
331XX	05	12	Volume of material	CY (M3)	EARTHWORK Construction during remedial action. Includes stripping topsoil, excavation, backfill, compaction, fine grading, hauling spoil, importation of borrow material and topsoil.
331XX	05	13	Total area	ACR (HEC)	EROSION CONTROL Includes remedial action establishment of turf and installation of trees, shrubs, and ground covers. Also includes mowing of established turf.
331XX	05	14	Total area of borrow pits and/or haul roads	ACR (HEC)	DEVELOPMENT OF BORROW PIT/HAUL ROADS Includes all work associated with the remedial action construction of borrow pit and haul roads such as clearing, earthwork, storm drainage, design, and testing.
331XX	05	9X			OTHER (Use Numbers 90-99) Includes all remedial action surface water collection and control not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	06				GROUNDWATER COLLECTION AND CONTROL Provides for the remedial action collection and control of contaminated groundwater through the construction of piping, wells, trenches, slurry walls, sheet piling and other physical barriers. Includes the collection of groundwater through the construction of lagoons, basins, tanks, dikes, and pump systems. Includes transport to treatment plant.
331XX	06	01	Each well	EA (EA)	EXTRACTION AND INJECTION WELLS Construction during remedial action. Injection wells are for injecting liquid wastes deep underground between geologically impermeable layers, usually of clay or shale, to contain or remove the contaminant plume, to direct contaminants to the extraction wells, or to lower the water table to prevent it from intercepting buried HTRW. Extraction wells are utilized for pump and treat operations. Extraction and injection wells include drilling rig setup, well drilling, well construction, handling of cuttings/water, casing removal, gravel pack material, grout, wet well, well development/testing, well screen, capping, well house, well pump and instrumentation, well piping, valves and fittings, electrical, operation during construction, and well abandonment.
331XX	06	02	Length of drainage/collection system	LF (M)	SUBSURFACE DRAINAGE/COLLECTION Drainage/collection includes items associated with the remedial action construction of a site subsurface gravity drainage and collection system. Assemblies include trench excavation and shoring, geotextile fabrics, liners, manholes, piping and fittings, hosing, and holding tanks.
331XX	06	03	Surface area of slurry wall one side	SF (M2)	SLURRY WALLS Construction during remedial action. Slurry walls are narrow vertical trenches, typically 24-36 inches wide, excavated through pervious materials to a relatively impervious underlying strata and backfilled with a soil/bentonite or cement/bentonite slurry mixture. This provides a vertical barrier to reduce the horizontal permeability of soil. Slurry wall construction includes excavation, bentonite slurry makeup, and backfill/slurry displacement. The operation of batch plant equipment such as storage tanks, ponds, grout plants, circulation pumps and batchmixers are also included.
331XX	06	04	Surface area of grout curtain one side	SF (M2)	GROUT CURTAIN Construction during remedial action. A grout curtain is an impenetrable barrier placed to prevent further contaminant migration by drilling into pervious rock formations at spaced intervals and injecting cement-based grouts under pressure. Grout curtain items include drilling rig, grout materials, on-site batch plants, grout pumps, and grout injection monitors.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENGINE(MET)	STANDARD DESCRIPTION
331XX	06	05	Surface area of sheet piling one side	SF (M2)	SHEET PILING Construction during remedial action. Sheet piling serves as an impervious barrier for contaminant migration once it is driven to an impervious underlying strata. Includes all materials, labor and equipment to drive sheet piling and pull/salvage, if required.
331XX	06	06	Area of facility	ACR (HEC)	LAGOONS/BASINS/TANKS/DIKES/PUMP SYSTEM Construction during remedial action of lagoons/basins/tanks/dikes are used for the storage of liquid phase groundwater wastes. Assemblies include earth structures, liners, spillways, intake/outlet structures, overtopping alarm systems, underground tanks, aboveground tanks, and concrete retention basins. Also includes the construction of a site pumping and collection system. Assemblies include pumping stations and controls, lift stations and controls, manholes, piping and fittings, hosing, and holding tanks.
331XX	06	07	Volume of waste material	MGA (KLI)	PUMPING/COLLECTION Pumping/collection during remedial action includes work associated with collecting groundwater.
331XX	06	08	Volume of waste material	MGA (KLI)	TRANSPORT TO TREATMENT PLANT Transport to treatment plant during remedial action includes equipment, materials, and labor for hauling, loading and unloading of wastes.
331XX	06	09	Total area of borrow pits and/or haul roads	ACR (HEC)	DEVELOPMENT OF BORROW PIT/HAUL ROADS Includes all work associated with the remedial action construction of borrow pit and haul roads such as clearing, earthwork, storm drainage, design, and testing.
331XX	06	9X			OTHER (Use Numbers 90-99) Includes all remedial action groundwater collection and control not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	07				AIR POLLUTION/GAS COLLECTION AND CONTROL Includes the remedial action construction for the collection and control of gas, vapor and dust.
331XX	07	01	Length of trench	LF (M)	GAS/VAPOR COLLECTION TRENCH SYSTEM Gas/Vapor collection trench systems constructed during remedial action consist of deep narrow trenches backfilled with gravel, to form a path of least resistance through which gases move upward to a collection apparatus. Assemblies include excavation, backfill, geotextile linings, well point dewatering and a ventilation system for the site.
331XX	07	02	Number of wells	EA (EA)	GAS/VAPOR COLLECTION WELL SYSTEM Gas/Vapor collection well systems constructed during remedial action permit the venting of underground gases to a collection well system in order to prevent migration or buildup. Collection and monitoring wells will include drilling rig setup, well drilling, handling of cuttings/water, casing, casing removal, gravel pack material, grout, wet well, well development/testing, well screen, capping, well house, well pump and instrumentation, well piping, valves and fittings and electrical. Also included are blowers and/or compressors, piping, metering, and control systems. This should not be confused with the soil vapor extraction process listed under "Vapor Extraction" (331XX.13.23).
331XX	07	03	Area of collection system coverage	SY (M2)	GAS/VAPOR COLLECTION AT LAGOON COVER Provides for the labor, material and equipment used during remedial action to construct the subsystem for the venting of gases and vapors at lagoon covers to prevent migration or buildup. Assemblies include collection hose, tank, vacuum blower/compressor, valves, boxes, and manholes.
331XX	07	04	Area of emissions control system coverage	ACR (HEC)	FUGITIVE DUST/VAPOR/GAS EMISSIONS CONTROL Fugitive dust/vapor/gas emissions control systems constructed during remedial action prevent the spread of airborne contaminants. Assemblies include sprayed chemical dust suppressants, wind fences/screens, synthetic covers over waste piles, and water spraying.
331XX	07	9x			OTHER (Use Numbers 90-99) Includes all remedial action air pollution and gas collection and control not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	08				SOLIDS COLLECTION AND CONTAINMENT Provides for exhuming and handling of solid hazardous, toxic and radioactive waste (HTRW) during remedial action through excavation, sorting, stockpiling, and filling containers. Provides for containment of solid waste through the construction of multilayered caps as well as dynamic compaction of burial grounds, cribs, or other waste disposal units. Includes transport to treatment plant.
331XX	08	01	Volume of waste material	CY (M3)	CONTAMINATED SOIL COLLECTION Includes the removal during remedial action of solid contaminated soil HTRW waste by front end loader, backhoe, gradall, clamshell, dragline or other mechanical means.
331XX	08	02	Volume of waste material	CY (M3)	WASTE CONTAINMENT, PORTABLE (FURNISH/FILL) Waste containment includes the procurement of and labor to fill containers during remedial action with solid HTRW wastes. Examples of containers are open top sludge containers, closed top sludge containers, roll-off containers, open head drums, spill containment vessels, spill containment pallets, storage tanks, drum liners, over packs and lab packs.
331XX	08	03	Volume of waste material	CY (M3)	TRANSPORT TO TREATMENT PLANT Transport to treatment plant during remedial action includes equipment, materials and labor for hauling, loading and unloading of solid waste.
331XX	08	04	Volume of waste material	CY (M3)	RADIOACTIVE SPECIFIC WASTE CONTAINMENT (FURNISH/FILL) Radioactive specific waste containment includes the procurement of and labor to fill containers during remedial action with low level and high level radioactive solid waste. Examples of containers are Low Specific Activity (LSA) waste containers, LSA drum over packs, LSA laundry containers, strong-tight containers, Type A containers, Type B shipping containers, lead-shielded containers, reusable containers and special use containers.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	08	05	Area of cap or liner	ACR (HEC)	CAPPING OF CONTAMINATED AREA/WASTE PILE (SOIL/ASPHALT CAP) Includes the remedial action construction of multilayered caps and bottom liners designed to contain solid waste in place, to prevent the migration of precipitation, or entry of vegetation or animals into the waste cell, and to collect and distribute any leachate generated by the waste. Includes procurement of materials, loading, hauling, spreading, compaction of cap layers, establishment of turf, and containment systems (liners) beneath waste piles or landfills. Cap layers and bottom liners include impervious clay layers, bentonite layer, granular drainage layers, geotextile membrane, flexible membrane liners, radon barrier, revegetation, erosion control, drainage and leachate collection system, manholes, sumps, lift stations, paving cover, blast protective cover and testing.
331XX	08	06	Volume of waste material	CY (M3)	NUCLEAR WASTE DENSIFICATION (DYNAMIC COMPACTION) Dynamic compaction is a remedial action technology that precedes the installation of a protective cap. Dynamic compaction is a method of densifying a waste disposal cell by means of dropping a large weight (several tons) a specified distance over the site area occupied by the disposal cell. The purpose of dynamic compaction is to densify the soil, HTRW or other debris in order to prevent settlement of the disposal cell which could damage a protective cap and allow migration of contaminants over time. Includes all labor and equipment to accomplish dynamic compaction of a site. The technology can be applied to both nuclear and hazardous waste.
331XX	08	07	Total area of borrow pits and/or haul roads	ACR (HEC)	DEVELOPMENT OF BORROW PIT/HAUL ROADS Includes all work during remedial action associated with the construction of borrow pit and haul roads such as clearing, earthwork, storm drainage, design, and testing.
331XX	08	9X			OTHER (Use Numbers 90-99) Includes all remedial action solids collection and containment not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENGINEET)	STANDARD DESCRIPTION
331XX	09				LIQUIDS/SEDIMENTS/SLUDGES COLLECTION AND CONTAINMENT Includes collection during remedial action of HTRW-contaminated liquids and sludges through dredging and vacuuming, and the furnishing and filling of portable containers. Includes the containment of liquids and sludges through the construction of lagoons, basins, tanks, dikes, and drain system. Includes transport to treatment plant.
331XX	09	01	Volume of waste material	CY (M3)	DREDGING/EXCAVATING Dredging during remedial action is the removal of sediment and sludges with overlying water. Dredging may be used for the removal of sediments in contaminated settling basins, lagoons and retention ponds. Includes hydraulic, mechanical and pneumatic dredges using cutterheads, bucket dredges, wheel dredges and suction dredging.
331XX	09	02	Volume of waste material	CY (M3)	INDUSTRIAL VACUUMING Industrial vacuuming during remedial action is the process of removal of industrial wastes contained in tanks, containers, surface impoundments or process vessels by pumping or pneumatic conveyance.
331XX	09	03	Volume of waste material	MGA (KLI)	WASTE CONTAINMENT, PORTABLE (FURNISH/FILL) Waste containment during remedial action includes the procurement of and labor to fill containers with liquid waste, sediments and sludges. Types of waste containers include open top sludge containers, closed top sludge containers, roll-off containers, open head drums, spill containment vessels, spill containment pallets, storage tanks, drum liners, over packs and lab packs.
331XX	09	04	Volume of waste material	MGA (KLI)	TRANSPORT TO TREATMENT PLANT Transport to treatment plant during remedial action includes equipment, materials and labor for hauling, loading and unloading of liquid waste, sediments and sludges.
331XX	09	05	Volume of waste material	MGA (KLI)	RADIOACTIVE SPECIFIC WASTE CONTAINMENT (FURNISH/FILL) Radioactive specific waste containment during remedial action includes the procurement of and labor to fill containers with low level and high level radioactive liquid waste. Examples of containers are Low Specific Activity (LSA) waste containers, LSA drum over packs, LSA laundry containers, strong-tight containers, Type A containers, Type B shipping containers, lead-shielded containers, reusable containers and special use containers.
331XX	09	06	Volume of waste material	MGA (KLI)	PUMPING/DRAINING/COLLECTION Pumping/drainage/collection includes work associated with removing liquid wastes from drums, tanks, and basins during remedial action.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	09	07	Area of facility	ACR (HEC)	LAGOONS/BASINS/TANKS/DIKES/PUMP SYSTEM Construction during remedial action of lagoons/basins/tanks/dikes which are used for the storage of liquid wastes. Includes earth structures, liners, spillways, intake/outlet structures, yard piping, pumping and lift stations, and overtopping alarm systems. Also includes the construction of a site drainage and collection system. Assemblies include pumping stations and controls, lift stations and controls, manholes, piping and fittings, hosing, and holding tanks.
331XX	09	08	Total area of borrow pits and/or haul roads	ACR (HEC)	DEVELOPMENT OF BORROW PIT/HAUL ROADS Includes all work associated with the remedial action construction of borrow pit and haul roads such as clearing, earthwork, storm drainage, design, and testing.
331XX	09	9X			OTHER (Use Numbers 90-99) Includes all remedial action for liquids, sediments, and sludges collection and containment not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	10				DRUMS/TANKS/STRUCTURES/MISCELLANEOUS DEMOLITION AND REMOVAL Includes the demolition and removal during remedial action of HTRW contaminated drums, tanks, contaminated paint removal, and other structures by excavation and downsizing. Does not include filling portable hazardous waste containers or transport of wastes to treatment or disposal facilities. See "Solids Collection and Containment" (331XX.08), "Disposal (Other than Commercial)" (331XX.18) and "Disposal (Commercial)" (331XX.19).
331XX	10	01	Number of drums	EA (EA)	DRUM REMOVAL Drum removal during remedial action includes locating buried or submerged drums, machine and hand excavation of buried drums, handling of drums, drum cleaning and decontamination, and all necessary drum crushing and shredding. Excludes removal of drum contents, see 331XX.09.06.
331XX	10	02	Number of tanks	EA (EA)	TANK REMOVAL Tank removal during remedial action includes locating buried or submerged tanks, machine and hand excavation of buried tanks, tank cleaning and decontamination, tank cutting/demolition and tank crushing. Excludes removal of drum contents, see 331XX.09.06.
331XX	10	03	Gross floor area of structure	SF (M2)	STRUCTURE REMOVAL Structure removal during remedial action is the decontamination and demolition of existing structures. Examples are buildings, pump stations, and outfall structures.
331XX	10	04	Contact area of asbestos contamination	SF (M2)	ASBESTOS ABATEMENT Asbestos abatement during remedial action includes isolation of work area, asbestos removal or encapsulation, cleanup, disposal of wastes, and final inspections. Also included are HEPA filtration devices, vacuums, air monitoring equipment and amended water.
331XX	10	05	Length of pipe	LF (M)	PIPING AND PIPELINE REMOVAL Piping/pipeline removal during remedial action includes locating buried or above ground piping, machine and hand excavation of buried piping, cutting, demolition, and handling of pipe, and removal of concrete pipe pits.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENGINE(T)	STANDARD DESCRIPTION
331XX	10	06	Volume of waste material	CY (M3)	RADIOACTIVE SPECIFIC WASTE CONTAINMENT (FURNISH/FILL) Radioactive specific waste containment includes the procurement of and labor to fill containers during remedial action with low level and high level radioactive waste not covered in "Solids Collection and Containment" (331XX.08) and "Liquids/Sediments/Sludges Collection and Containment" (331XX.09). Examples of containers are Low Specific Activity (LSA) waste containers, LSA drum overpacks, LSA laundry containers, strong-tight containers, Type A containers, Type B shipping containers, lead-shielded containers, reusable containers and special use containers.
331XX	10	07	Total contaminated area	ACR (HEC)	MISCELLANEOUS ITEMS Miscellaneous items include all remedial action items for demolition and removal of contaminated items that do not directly pertain to the above subsystems. Includes pressurized gas cylinders, debris, and pavement removal.
331XX	10	08	Contact area of contaminated paint	SF (M2)	CONTAMINATED PAINT REMOVAL Includes remedial action removal or encapsulation of lead (or other contaminant) contaminated paint which has been previously applied to a surface. Includes various methods of removal such as physical, chemical, thermal, etc.
331XX	10	9X			OTHER (Use Numbers 90-99) Includes all remedial action demolition and removal of drums, tanks, and structures not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	11				BIOLOGICAL TREATMENT Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.11.01.-14.). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.11.50.). Biological treatment is the microbial transformation of organic compounds. Biological treatment processes can alter inorganic compounds such as ammonia and nitrate, and can change the oxidation state of certain metal compounds. Includes in-situ biological treatment such as land farming as well as activated sludge, composting, trickling filters, anaerobic, and aerobic digestion. Includes process equipment and chemicals required for treatment. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).
331XX	11	01	Volume of waste material	MGA (KLI)	ACTIVATED SLUDGE (SEQUENCING BATCH REACTORS) Remedial action. Activated sludge is a sludge that contains living organisms that are agitated and aerated to promote biological growth. Activated sludge treats wastewater containing biodegradable organic compounds. Note that not all activated sludge systems are sequencing batch reactors. Sequencing batch reactors are one of about a dozen variations of activated sludge treatment and do not necessarily have to be aerated. Activated sludge assemblies include reactors, aerators, aerobic bacteria (maintained in suspension), settling tanks, and a recycling line for the settled biomass.
331XX	11	02	Volume of waste material	MGA (KLI)	ROTATING BIOLOGICAL CONTACTORS Remedial action. Rotating biological contactors consist of slowly rotating circular disks of polystyrene, polyvinyl chloride or other stable material which are partly exposed to the air and partly submerged in troughs containing wastewater. The disks are covered with microorganisms that degrade dissolved organic compounds as they rotate in and out of the wastewater.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	11	03	Volume of waste material	CY (M3)	LAND TREATMENT/FARMING (SOLID PHASE BIODEGRADATION) Remedial action. Land treatment/farming is the remedial action technology in which wastes are deposited on or in the soil and naturally degraded by microbes. Degradation can be accomplished by stimulating naturally occurring bacteria in the soil with the addition of nutrients (biostimulation). Another means of accomplishing degradation is by the addition of bacteria to the soil (bioaugmentation) as well as nutrients. The method employed depends on the waste and concentration of naturally occurring bacteria in the soil. After the contaminated soil is excavated and placed on bermed and lined prepared beds or treatment cells, land treatment employs conventional agriculture practices and consists of : 1) placement of soil 2) tillage 3) nutrient application 4) irrigation and 5) land reclamation.
331XX	11	04	Volume of waste material	CY (M3)	IN-SITU BIODEGRADATION/BIORECLAMATION Remedial action. In-situ biodegradation/bioreclamation is the in-place bioremediation of contaminated media. In-situ implies that there is no excavation of soil or extraction of groundwater or surface water.
331XX	11	05	Volume of waste material	MGA (KLI)	TRICKLING FILTERS Remedial action. A trickling filtration system uses a rotary sprinkler to evenly distribute a waste liquid across a bed of filtration media into which microorganisms are attached. As the waste stream trickles through the filter media, the organic contaminants are biodegraded by the microorganisms. Trickling filters consist of a highly permeable bed of media, rotary sprinklers, porous underdrain systems, and settling tanks.
331XX	11	06	Volume of waste material	MGA (KLI)	BIOLOGICAL LAGOONS Remedial action. Biological lagoons use a lined earthen basin and sometimes aeration to promote the optimal growth of microorganisms for the effective remediation of contaminated liquids and sludges. This method of treatment relies on algal photosynthesis, adequate mixing, good inlet-outlet design and adequate air temperatures to operate efficiently. Facultative lagoons typically are used to treat low to medium strength organic wastes. Anaerobic lagoons and/or aerated lagoons are modified processes that treat wastes at higher rates.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENGINE(T)	STANDARD DESCRIPTION
331XX	11	07	Volume of waste material	CY (M3)	COMPOSTING Remedial action. Composting is a process which biologically degrades soil contaminants, sludge, or municipal solid organic wastes. The contaminated media is mixed with organic nutrients. A bulking agent, such as wood chips, and inorganic nutrients are also mixed in. The mixture is then placed in (compost) piles to promote heat generation and, thus, faster and more efficient biodegradation. Composting systems can be simple windrows mixed or turned periodically or have complete mechanical mixing and aerating systems.
331XX	11	08	Volume of waste material	CY (M3)	SLUDGE STABILIZATION - AEROBIC Remedial action. Aerobic sludge stabilization is the bioremediation treatment process in which bioremedial microorganisms use oxygen to biologically oxidize compounds. Assemblies for aerobic sludge stabilization include tanks, lagoons, air diffusers, aeration equipment, and pure oxygen systems.
331XX	11	09	Volume of waste material	CY (M3)	SLUDGE STABILIZATION - ANAEROBIC Remedial action. Anaerobic sludge stabilization is the bioremediation treatment process in which bioremedial microorganisms do not require oxygen and exist and react in a relatively oxygen-free environment. Assemblies for anaerobic sludge stabilization include air-tight containers, pH monitors, lime, and methane recovery systems.
331XX	11	10	Volume of waste material	CY (M3)	GENETICALLY ENGINEERED ORGANISMS (WHITE ROT FUNGUS) Remedial action. Genetically engineered organisms refers to microorganisms that have undergone external processes by which its basic set of genes has been altered. The utilization of genetically engineered organisms involves the controlled use of these specially cultivated organisms to treat contaminants.
331XX	11	11	Volume of waste material	CY (M3)	SLURRY BIODEGRADATION Remedial action. Slurry biodegradation is the use of microbial action to break down sludges or soils in a water suspension into simple, stable compounds. Slurry biodegradation activities include excavation, material segregation, scrubbing, aeration, bioreactor mixing, dewatering, and placement of additional nutrients.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENGINE(MET)	STANDARD DESCRIPTION
331XX	11	07	Volume of waste material	CY (M3)	COMPOSTING Remedial action. Composting is a process which biologically degrades soil contaminants, sludge, or municipal solid organic wastes. The contaminated media is mixed with organic nutrients. A bulking agent, such as wood chips, and inorganic nutrients are also mixed in. The mixture is then placed in (compost) piles to promote heat generation and, thus, faster and more efficient biodegradation. Composting systems can be simple windrows mixed or turned periodically or have complete mechanical mixing and aerating systems.
331XX	11	08	Volume of waste material	CY (M3)	SLUDGE STABILIZATION - AEROBIC Remedial action. Aerobic sludge stabilization is the bioremediation treatment process in which bioremedial microorganisms use oxygen to biologically oxidize compounds. Assemblies for aerobic sludge stabilization include tanks, lagoons, air diffusers, aeration equipment, and pure oxygen systems.
331XX	11	09	Volume of waste material	CY (M3)	SLUDGE STABILIZATION - ANAEROBIC Remedial action. Anaerobic sludge stabilization is the bioremediation treatment process in which bioremedial microorganisms do not require oxygen and exist and react in a relatively oxygen-free environment. Assemblies for anaerobic sludge stabilization include air-tight containers, pH monitors, lime, and methane recovery systems.
331XX	11	10	Volume of waste material	CY (M3)	GENETICALLY ENGINEERED ORGANISMS (WHITE ROT FUNGUS) Remedial action. Genetically engineered organisms refers to microorganisms that have undergone external processes by which its basic set of genes has been altered. The utilization of genetically engineered organisms involves the controlled use of these specially cultivated organisms to treat contaminants.
331XX	11	11	Volume of waste material	CY (M3)	SLURRY BIODEGRADATION Remedial action. Slurry biodegradation is the use of microbial action to break down sludges or soils in a water suspension into simple, stable compounds. Slurry biodegradation activities include excavation, material segregation, scrubbing, aeration, bioreactor mixing, dewatering, and placement of additional nutrients.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	11	12	Surface area of waste material	SF (M2)	BIOVENTING Remedial action. A process for aerating subsurface soils, using injected air as the oxygen source, to stimulate in-situ biological activity and promote biodegradation of compounds amenable to biodegradation under aerobic conditions. In contrast to soil vapor extraction, bioventing is designed to maximize in-situ biodegradation, rather than volatilization of amenable compounds. Thus, bioventing systems usually operate at much lower per well air flow rates than soil vapor extraction systems. Equipment required for bioventing includes wells, manifold piping, and blower(s).
331XX	11	13	Surface area of waste material	SF (M2)	BIOSLURPING Remedial action. A process for recovering free phase light non-aqueous phase liquids (LNAPL) and/or contaminated groundwater from near the vadose zone/water table interface via vacuum enhanced pumping; often accomplished with a variable length suction pipe (for extracting liquids) inside of a soil vapor extraction well. The screened interval of the soil vapor extraction well usually spans the vadose zone/water table interface. Soil vapor extraction and free product/groundwater extraction occur simultaneously; resulting in aeration of surrounding soil which enhances biodegradation compounds amenable to biodegradation under aerobic conditions. Equipment required for bioslurping includes wells, manifold piping, suction piping (or drop tubes), vacuum pumps(s) (often liquid-ring pumps), air/water separator(s), and oil/water separator(s). Extracted liquids and air may require treatment.
331XX	11	14	Volume of waste material	CY (M3)	BIOPILE (HEAP PILE REMEDIATION) Remedial action. Biopile is a process for degrading and/or detoxifying contaminants by use of an ex-situ version of soil bioventing in which air is pulled or blown through the soil pile to stimulate indigenous hydrocarbon-degrading microorganisms. Required equipment includes piping, blower(s), liner, and knockout tanks.
331XX	11	50	Each facility	EA (EA)	CONSTRUCTION OF PERMANENT PLANT FACILITY New remedial action construction of a permanent plant facility to remediate wastes through any of the technology subsystems listed above (331XX.11). Add a note for this item to explain which of the above subsystem technologies are used in the plant and note the rated capacity of the plant such as MGA/DAY (KL/DAY), CY/DAY (M3/DAY), etc.
331XX	11	9X			OTHER (Use Numbers 90-99) Includes all biological treatments during remedial action not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	12				CHEMICAL TREATMENT Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.12.(01.-14.)). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.12.50.). Chemical treatment is the process in which hazardous wastes are chemically changed to remove toxic contaminants from the environment. Type of treatment included in this system are oxidation/reduction, solvent extraction, chlorination, ozonation, ion exchange, neutralization, hydrolysis, photolysis, dechlorination, and electrolysis reactions. Includes process equipment and chemicals required for treatment. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).
331XX	12	01	Volume of waste material	MGA (KLI)	OXIDATION/REDUCTION (CATALYTIC OXIDATION, UV OZONE, PEROXIDE, SOLAR DETOXIFICATION) Remedial action. Oxidation/reduction (redox) reactions are those in which an atom or group of atoms loses electrons, hence oxidation/reduction is the transfer of electrons. In oxidation/reduction reactions the contaminant is usually oxidized. The addition of oxygen breaks down organic waste or chemicals such as cyanides, phenols and organic sulfur compounds. Peroxide and ozone are the oxidizing agents usually used in conjunction with UV. For ozonation use "Ozonation" (331XX.12.04).

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	12	02	Volume of waste material	MGA (KLI)	SOLVENT EXTRACTION Remedial action. Separation processes in which two immiscible or partially soluble liquid phases are brought into contact for the transfer of one or more compounds are referred to as liquid-liquid extraction or, more loosely, as solvent extraction. The processes taking place are primarily physical, since the solutes being transferred are ordinarily recovered without chemical change. On the other hand, the physical equilibrium relationships on which such operations are based depend mainly on the chemical characteristics of the solutes and solvents. Thus, use of a solvent that chemically resembles one component of a mixture more than the other components will lead to concentration of that component in the solvent phase, with the exclusion from the phase of the dissimilar components. The contaminant is not altered by extraction but is transferred to a different phase. The most common systems include 1) mixer-settler, consisting of a mixing chamber and a settling chamber for phase dispersion and separation, 2) extraction columns, consisting of either packed extractors or sieve-tray extractors for mixing of the solute and solvent, and 3) centrifugal extractors, which rely on centrifugal force to mix the solute and solvent. Refer to "Soil Washing" (331XX.13.09) for ex-situ extraction of contaminants from soils or "Soil Flushing" (331XX.13.10) for in-situ extraction of contaminants from soils.
331XX	12	03	Volume of waste material	MGA (KLI)	CHLORINATION Remedial action. Chlorination is the application of chlorine to drinking water, sewage or industrial wastes to disinfect or to oxidize undesirable compounds. Assemblies include feed systems, storage tanks, chemicals, piping, and diaphragm metering pumps.
331XX	12	04	Volume of waste material	MGA (KLI)	OZONATION Remedial action. Ozone induced oxidation is a water or wastewater treatment process involving the use of ozone as an oxidizing agent. Ozone is produced with corona discharge technology, and must be produced on site due to the hazards of transporting and storing ozone. Ozone induced oxidation can be conducted in a batch or continuous process. Batch production uses a single reaction tank, while continuous operation uses two separate tanks, one being an overflow tank for excess ozone. Note that electricity (high amounts are used) should be included. Assemblies include post treatment to remove any residual ozone, and monitoring units. Oxidation can be increased by supplying ultraviolet (UV) radiation during treatment.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	12	05	Volume of waste material	MGA (KLI)	ION EXCHANGE Remedial action. Ion exchange is the process by which inorganic compounds are removed by the capture of ions on a resinous material known as ion exchange resins. The resin is contained in a column and the wastewater is continuously passed through the column until the resin becomes exhausted, and is then regenerated. Ion exchange is not a destructive technology and the contaminated regenerant will eventually need disposal. Exchangers include cation exchangers, anion exchangers, and mixed-bed exchangers. Assemblies include ion exchange columns, chemical feed pumps, and storage tanks.
331XX	12	06	Volume of waste material	MGA (KLI)	NEUTRALIZATION Remedial action. Neutralization is the adjustment of a wastewater stream pH by the use of acids and caustics. Neutralization includes acids, caustics, chemical storage, mixing basins, pH probes and controls.
331XX	12	07	Volume of waste material	MGA (KLI)	CHEMICAL HYDROLYSIS Remedial action. Hydrolysis is the chemical reaction of water with another substance in which hydrogen (H) and hydroxyl (OH) are added to the other substance usually forming two or more new compounds. Assemblies include feed systems, storage tanks, piping, and diaphragm metering pumps.
331XX	12	08	Volume of waste material	MGA (KLI)	ULTRAVIOLET PHOTOLYSIS Remedial action. Ultraviolet photolysis is the process by which chemical bonds are broken under the influence of ultraviolet light. Products of photo-degradation vary according to the matrix in which the process occurs, but the complete conversion of an organic contaminant to CO ₂ , H ₂ O, etc., is not probable. Equipment includes UV lamps, process pumps and monitors. Note that this account does not include UV oxidation. See "Oxidation/Reduction (Catalytic Oxidation...)" (331XX.12.01).
331XX	12	09	Volume of waste material	CY (M3)	DEHALOGENATION (CATALYTIC DECHLORINATION) Remedial action. Dehalogenation is the chemical process in which halogenated (usually chlorinated) organic compounds in an aqueous or soil media are mixed and heated with basic reagent to remove the halogens (usually chlorine). Included in this subsystem are all dehalogenation processes that are not based on alkali metals. See "Alkali Metal Dehalogenation" (331XX.12.10).

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	12	10	Volume of waste material	CY (M3)	ALKALI METAL DECHLORINATION Remedial action. Alkali metal dechlorination is the reaction of an alkali metal with a glycol for the removal of the halogens from halogenated organics such as fluorine, chlorine, bromine, and iodine. The alkali metal dechlorination process treats contaminated soils and sludges by using an alkaline metal mixed with a reagent to form a slurry, which is transferred to a concentrator reactor where the filtered waste is dechlorinated. The excess reagent is decanted and the soil is washed with water. The process requires dewatering pretreatment. This subsystem includes all generic alkali metal dehalogenation processes not specifically identified in other subsystems. See "Alkali Metal /Polyethylene Glycol (A/PEG)" (331XX.12.11).
331XX	12	11	Volume of waste material	CY (M3)	ALKALI METAL/POLYETHYLENE GLYCOL (A/PEG) Remedial action. APEG (and KPEG) are batch processes which detoxify halogenated aromatic and other organic compounds such as PCBs or pentachlorophenols (PCPs) by heating them with polyethylene glycol (PEG) and sodium hydroxide (NaPEG) or potassium hydroxide (KPEG) for several hours at 300 degrees F. The APEG process decomposes PCBs and representative halogens in an exothermic and self-sustaining manner. A dechlorination reagent is formed by reacting alkali metals (such as sodium) with the polyethylene glycol in the presence of heat and oxygen. The reaction mechanism involves nucleophilic substitution/elimination and the oxidative degradation of chlorine through the generation of numerous free radicals. The process reactivity can be "tuned" or directed at various aliphatic or aromatic systems by varying the molecular weight of the polyethylene glycol. Typical by-products of the reaction are salts such as sodium chloride, hydrogen and hydroxylated organic derivatives. The primary advantage of the system is that the reagent is not based on a dispersed metallic sodium reaction, can tolerate low levels of water content and is stable in air. Therefore, the process may be applicable to soils, dredgings, sediments and low moisture sludges.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	12	12	Volume of waste material	CY (M3)	BASE-CATALYZED DECOMPOSITION PROCESS (BCDP) Remedial action. The base-catalyzed decomposition process (BCDP) is a chemical dehalogenation treatment which is designed to dehalogenate (usually chlorinated) aromatic contaminants such as PCBs in sediment, oil, soil and sludge. For soil and sediment, the process uses two reactors. In the first reactor, the soil is mixed with sodium bicarbonate and heated at about 350 degrees C for one hour. 25%-75% of the halogenated aromatics are dehalogenated in this step. The rest are volatilized and passed on to the second reactor, a slurry or liquid phase reactor which utilizes a high boiling-point hydrocarbon oil, catalyst, sodium hydroxide and heat (350 degrees C) to dehalogenate/decompose the contaminants. Contaminated oily liquids (such as pesticides and PCB transformer oil) are treated with the slurry/liquid phase reactor only.
331XX	12	13	Volume of waste material	MGA (KLI)	ELECTROLYSIS Remedial action. Electrolysis (in-situ or ex-situ) is the process in which reduction and oxidation reactions take place at the surface of conductive electrodes immersed in an electrolyte, under the influence of an applied potential. Electrolysis oxidizes the substances at the anode and reduces the substances at the cathode. Assemblies include trough-shaped elongated cells, monitoring equipment, anode and cathode material.
331XX	12	14	Volume of waste material	CF (M3)	VAPOR RECOVERY/REUSE (Internal Combustion Engine) Remedial action. Organic vapors may be suitable as the primary fuel for operation of internal combustion engines. Supplemental fuels are generally used to blend or supplant the contaminated vapors during periods of low production.
331XX	12	50	Each facility	EA (EA)	CONSTRUCTION OF PERMANENT PLANT FACILITY New remedial action construction of a permanent plant facility to remediate wastes through any of the technology subsystems listed above (331XX.12). Add a note for this item to explain which of the above subsystem technologies are used in the plant and note the rated capacity of the plant such as MGA/DAY (KLI/DAY), CY/DAY (M3/DAY), etc.
331XX	12	9X			OTHER (Use Numbers 90-99) Includes all biological treatments during remedial action not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	13				PHYSICAL TREATMENT Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.13.01.-32.). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.13.50.). These treatment processes are the physical separation of contaminants from solid, liquid or gaseous waste streams. The treatments are applicable to a broad range of contaminant concentrations. Physical treatments generally do not result in total destruction or separation of the contaminants in the waste stream, consequently post-treatment is often required. Type of physical treatment included in this system are filtration, sedimentation, flocculation, precipitation, equalization, evaporation, stripping, soil washing, and carbon adsorption. Includes process equipment and chemicals required for treatment. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).
331XX	13	01	Volume of waste material	MGA (KLI)	FILTRATION/ULTRAFILTRATION Remedial action. Filtration is the physical process whereby particles suspended in a fluid are separated by forcing the fluid through a porous medium. As the fluid passes through the medium, the suspended particles are trapped on the surface of the medium and/or within the body of the medium. The pressure differential to move the fluid through the medium can be induced by gravity, positive pressure, or vacuum. Ultrafiltration occurs when particles are separated by forcing the fluid through a semi-permeable membrane.
331XX	13	02	Volume of waste material	MGA (KLI)	SEDIMENTATION Remedial action. Sedimentation is the physical process by which particles suspended in a liquid are made to settle by means of gravitational and inertial forces acting on both the particles suspended in the liquid and the liquid itself.
331XX	13	03	Volume of waste material	MGA (KLI)	STRAINING Remedial action. Straining is the process by which wastewater is sent through a strainer to remove sludge and coarse solid materials. Assemblies include associated pumps, piping, and valves, storage tanks, and backwashing contaminated membranes.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	13	04	Volume of waste material	MGA (KLI)	COAGULATION/FLOCCULATION/PRECIPITATION Remedial action. Coagulation is the increased clumping of particles in wastewater by biological or chemical means allowing for the separation of the particles from the water by sedimentation or filtration. It is often induced by chemicals such as lime, alum and iron salts.
331XX	13	05	Volume of waste material	MGA (KLI)	EQUALIZATION Remedial action. Equalization is the process in which collected wastewater is mixed to produce a homogenous solution and is discharged to a treatment plant. Blending is used to even out variations in contaminated soils and sludges, similar to equalization. Assemblies include mixers, aerators, discharging pumps and equalization tank.
331XX	13	06	Volume of waste material	MGA (KLI)	EVAPORATION Remedial action. Evaporation treats organic material that can be removed by heat. This is usually conducted under vacuum conditions increasing surface area to further promote separation. Assemblies include simple stills, flash and circulation evaporators, rotors, and heating.
331XX	13	07	Volume of waste material	MGA (KLI)	AIR STRIPPING Remedial action. Air stripping is the physical transfer of dissolved molecules from a liquid waste stream to a flowing gas. It is normally carried out as a continuous operation that employs a packed tower. For air stripping, liquid waste is pumped near the top of stripping column and flows downward through the tower, concurrent to an upward air flow. As the air flow contacts the liquid wastes, the volatile organics are stripped from the liquid waste.
331XX	13	08	Volume of waste material	MGA (KLI)	STEAM STRIPPING Remedial action. Steam stripping is the physical transfer of dissolved molecules from a liquid waste stream to a vapor stream. It is normally carried out as a continuous operation that employs a conventional fractional distillation column. For steam stripping, preheated wastewater is pumped near the top of the distillation column and flows downward, concurrent to an upward flow of steam rising from the column bottom. As the steam contacts the liquid wastes, the volatile organics are stripped from the liquid waste and carried to a condenser in a water-cooled heat exchanger and collected in an accumulator tank.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	13	09	Volume of waste material	CY (M3)	SOIL WASHING (SURFACTANT/SOLVENT) Remedial action. Soil washing is an ex-situ separation technology which uses a fluid (usually water or water with wash improving additives) to remove hazardous, toxic, or radioactive contaminants from excavated soils, sludges and sediments. The soil is rinsed to remove any excess surfactants, while the liquids are treated as contaminated liquids. Assemblies include conveyors, screens, tanks, dewatering devices, associated piping and valves, and liquid waste treatment units. Refer to "Dehalogenation (Catalytic Dechlorination)" (331XX.12.09), "Alkali Metal Dechlorination" (331XX.12.10), "Solvent Extraction" (331XX.12.02) (which uses an organic chemical to dissolve, separate and concentrate organic contaminants) and "Soil Flushing (Surfactant/Solvent)" (331XX.13.10) for in-situ treatment.
331XX	13	10	Volume of waste material	CY (M3)	SOIL FLUSHING (SURFACTANT/SOLVENT) Remedial action. Soil flushing is an in-situ treatment of soils, sludges and sediments with water (with or without additives) to remove hazardous, toxic or radioactive contaminants. The wastewater is then recovered and treated. Assemblies include infiltration basins, water storage tanks with associated pumps, valves, and piping, groundwater recovery wells, and treatment for the recovered water. See "Soil Washing (Surfactant/solvent)" (331XX.13.09) for ex-situ treatment.
331XX	13	11	Volume of waste material	CY (M3)	SOLIDS DEWATERING Remedial action. Solids dewatering is the process of the removal of water by filtration, centrifugation, open air drying, or other mechanical or evaporative methods. Dewatering sludge facilitates disposal by burning or landfilling. Does not include dewatering through the use of a filter press, see "Filter Presses" (331XX.13.30).
331XX	13	12	Volume of waste material	MGA (KLI)	OIL/WATER SEPARATION Remedial action. Oil/water separation is the process of separating oil and water due to density differences and gravitational pull.
331XX	13	13	Volume of waste material	MGA (KLI)	DISSOLVED AIR FLOATATION Remedial action. Dissolved air flotation (DAF) is commonly used as a pretreatment process for the separation of suspended solids, oil, and grease from wastewater without the use of chemicals. Gas bubbles are brought out of solution and into contact with contaminants in the waste stream. These gas bubbles attach to the contaminants and lift them to the surface. Assemblies include pressurization units, discharge heads, and tanks.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	13	14	Volume of waste material	CY (M3)	HEAVY MEDIA SEPARATION Remedial action. Heavy media separation is the physical process used to separate materials of differing density by float/sink in a colloidal suspension of a finely ground dense mineral. This suspension, or media, usually consists of a water-suspension of magnetite, galena or ferrosilicon.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	13	15	Volume of waste material	MGA (KLI)	DISTILLATION Remedial action. Distillation is the process of purifying liquids through boiling, so that the steam condenses to a pure liquid and the pollutants remain in a concentrated residue. It involves two basic phases, the liquid phase and the vapor phase. The components which are to be separated by distillation are present in both phases but in different concentrations. If there are only two components in the liquid, one concentrates in the condensed vapor (condensate) and the other in the residual liquid. If there are more than two components, the less volatile components concentrate in the residual liquid and the more volatile in the vapor condensate.
331XX	13	16	Volume of waste material	MGA (KLI)	CHELATION Remedial action. Chelation is the process in which toxic metals are removed from the soil. Metals contained in the soil are contacted with an aqueous solution containing a chelating agent. The resulting slurry is dewatered and the chelating agent combined with the toxic metal is sent to a storage or treatment plant. Assemblies include conveyors, water storage tanks, dewatering devices, and associated piping and valves.
331XX	13	17	Volume of waste material	MGA (KLI)	SOLVENT EXTRACTION Remedial action. Refer to "Solvent Extraction" (331XX.12.02) for liquid-liquid extraction. Refer to "Soil Washing (Surfactant/Solvent)" (331XX.13.09) for ex-situ extraction of contaminants from soils. Refer to "Soil Flushing (Surfactant/Solvent)" (331XX.13.10) for in-situ extraction of contaminants from soils. Refer to "Dehalogenation (Catalytic Dechlorination)" (331XX.12.09) of contaminated soils and sludges, "Alkali Metal Dechlorination" (331XX.12.10) and "Alkali Metal/Polyethylene Glycol (A/PEG)" (331XX.12.11) for related processes.
331XX	13	18	Volume of waste material	MGA (KLI)	SUPERCritical EXTRACTION Remedial action. Supercritical extraction is the process in which the organic constituents of a waste stream are dissolved after mixing with a gas (such as carbon dioxide, propane, or butane) pressurized to the supercritical state. The enhanced solubilities of the fluid, due to the high pressures and temperatures, aid in the removal of the wastes.
331XX	13	19	Volume of waste material	CF (M3)	CARBON ADSORPTION - GASES Remedial action. Vessels containing activated carbon are used to remove organic contaminants from gaseous waste streams. Organic molecules are adsorbed into the carbon, which is either replaced or regenerated. Items associated with carbon adsorption are granular activated carbon columns, prefilters, and items associated with regenerating the spent carbon. Organic carbon analyzers are used for on-line control.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM (ENGINEET)	STANDARD DESCRIPTION
331XX	13	20	Volume of waste material	MGA (KLI)	CARBON ADSORPTION - LIQUIDS Remedial action. Carbon adsorption use activated carbon to remove organic contaminants from liquid waste streams. Granular activated carbon is applied in a stationary column or filter bed, where organic contaminants are adsorbed. Items associated with carbon adsorption are isotherm tests, granular activated carbon columns, prefilters, and items associated with regenerating the spent carbon.
331XX	13	21	Volume of waste material	MGA (KLI)	MEMBRANE SEPARATION - REVERSE OSMOSIS Remedial action. Membrane separation removes dissolved salts, soluble silica, colloids and organic molecules from waste streams. Wastewater is collected and sent through a reverse osmosis system under pressure. The reverse osmosis systems filters, then concentrates waste materials while water easily passes through. Equipment includes reverse osmosis modules, chemical feed (usually acid), high pressure pumps, and treatment and disposal of the concentrate.
331XX	13	22	Volume of waste material	MGA (KLI)	MEMBRANE SEPARATION - ELECTRODIALYSIS Remedial action. Electrodialysis is the process in which an electrically charged membrane is introduced into a waste stream where the voltage drives the charged ions towards the membrane. Electrodialysis removes dissolved salts, soluble silica and organic materials from waste streams and concentrates the dissolved heavy metals. Assemblies include water storage tanks, associated pumps, piping, and valves, and backwashing of contaminated membranes.
331XX	13	23	Volume of waste material	CY (M3)	SOIL VAPOR EXTRACTION Remedial action. Soil vapor extraction (SVE), also known as vapor extraction, is a remediation technology which removes volatile organic compounds from soil by pulling air through the soil. The air is moved by means of a blower or vacuum pump connected to wells or trenches via piping. Associated equipment includes condensate handling devices, instrumentation and controls, and, in most cases, offgas treatment. The SVE process is distinct from vapor/gas venting and collection listed under "Gas/Vapor Collection Trench System" (331XX.07.01). Activities associated with SVE may include surface covering (placement of geomembrances) and air sparging (331XX.13.32.).
331XX	13	24	Volume of waste material	CY (M3)	SHREDDING Remedial action. Shredding is used to break up large solid wastes and process drums and their contents. Necessary equipment includes conveyors and rotary shear shredders.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	13	25	Volume of waste material	CY (M3)	AERATION Remedial action. Aeration is the process of bringing about contact between air and water for the purpose of promoting biological degradation. Aeration is employed in several biological technologies including activated sludge, rotating biological contactors, trickling filters and biological lagoons. Assemblies include tanks, air diffusers, and reactors.
331XX	13	26	Volume of waste material	CY (M3)	ADVANCED ELECTRICAL REACTOR Remedial action. The advanced electrical reactor employs a thermal destruction process in which wastes are incinerated within a reactor core that is heated by electrically heated carbon electrodes (which are insulated by nitrogen gas). Included are reactor ownership/rental, feeders for solids and nozzles for liquids, and post reactor treatment.
331XX	13	27	Volume of waste material	CY (M3)	LOW LEVEL WASTE (LLW) COMPACTION Remedial action. Compacting is used for densifying the volume of LLW (radioactive) waste prior to disposal. Necessary equipment includes compactors, conveyors and compactor/shredder units and applicable ventilation systems. Also included are ownership/rental, setup and testing. This does not include waste transportation or disposal.
331XX	13	28	Volume of waste material	CY (M3)	AGGLOMERATION Remedial action. Agglomeration is the transformation of sludge into dry, dense pellets. Agglomeration is accomplished by batchmixing sludge with an agglomeration agent.
331XX	13	29	Volume of waste material	MGA (KLI)	IN-SITU STEAM EXTRACTION Remedial action. In-situ steam extraction is the removal of hydrocarbons from contaminated soils by the continuous pumping of steam and heated compressed air and recovery of the subsequent contaminated water and offgases which are cooled to condense water and organics. The resultant air-stream is then treated (by carbon adsorption, catalytic oxidation, etc.), compressed and returned to the soil being treated. The condensed water is removed from the liquid stream with a gravity separator followed by treatment to remove dissolved organics. The condensed organics are collected and held for recycling or disposal. Assemblies include drilling injection and extraction wells and vacuum pumps.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	13	30	Volume of waste material	MGA (KLI)	FILTER PRESSES Remedial action. Filter presses are used for sludge dewatering. Filter presses consist of a number of chamber filter plates which sludge is pumped between. Under high pressure, the plates are forced together which effectively dewater the sludge. The resulting sludge cake is then discharged from the press. Assemblies include filter press ownership/rental costs, operating costs, sludge transfer and feed pumps, chemical feed and storage equipment, sludge storage and conditioning tanks, mixers, belt filter, vacuum filter, drying beds, and necessary pipework.
331XX	13	31	Volume of waste material	CY (M3)	LIGNIN ADSORPTION/SORPTIVE CLAYS Remedial action. Lignin adsorption/sorptive clays are used to treat aqueous waste streams with organic, inorganic and heavy metals contamination. The waste stream is treated due to the molecular adhesion of the contaminants to an adsorptive surface.
331XX	13	32	Volume of waste material	MGA (KLI)	AIR SPARGING Remedial action. Air sparging is a ground water remediation technology which removes organic contaminants by injecting air into the aquifer and allowing the air to pass upward into the unsaturated soil. Contaminants are removed either through partitioning into the moving air or through biodegradation enhanced by the introduction of dissolved oxygen from the injected air. The injected air is almost always meant to be captured by an SVE system. Air sparging equipment consists of an air compressor (usually an oil-less compressor), piping, and injection wells. Associated equipment includes instrumentation and controls, and occasionally involves air filters and a heat exchanger.
331XX	13	50	Each facility	EA (EA)	CONSTRUCTION OF PERMANENT PLANT FACILITY New remedial action construction of a permanent plant facility to remediate wastes through any of the technology subsystems listed above (331XX.13). Add a note for this item to explain which of the above subsystem technologies are used in the plant and note the rated capacity of the plant such as MGA/DAY (KLI/DAY), CY/DAY (M3/DAY), etc.
331XX	13	9x			OTHER (Use Numbers 90-99) Includes all physical treatments during remedial action not described by the above listed subsystems.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	14				THERMAL TREATMENT Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.14.(01.-07.)). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.14.50.). Thermal treatment is the destruction of wastes through exposure to high temperature in combustion chambers and energy recovery devices. Several processes capable of incinerating a wide range of liquid and solid wastes include fluidized bed, rotary kiln, multiple hearth, infrared, circulating bed, liquid injection, pyrolysis, plasma torch, wet air oxidation, supercritical water oxidation, molten salt destruction, and solar detoxification. Includes process equipment and chemicals required for treatment. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).
331XX	14	01	Volume of waste material	CY (M3)	INCINERATION Remedial action. Includes fluidized bed, rotary kiln, multiple hearth, infrared, circulating bed, liquid injection, pyrolysis, plasma torch, wet air oxidation, batch, etc. Incineration is the thermal destruction of wastes through burning in combustion chambers and energy recovery devices. Incineration is accomplished by oxidative or pyrolytic methods. Auxiliary equipment includes shredders, conveyors, blowers, fuel system, instrumentation and controls, bag houses, scrubbers, and treated material handling systems.
331XX	14	02	Volume of waste material	CY (M3)	LOW TEMPERATURE THERMAL DESORPTION Remedial action. Includes fluidized bed, rotary kiln, multiple hearth, infrared, circulating bed, liquid injection, pyrolysis, plasma torch, wet air oxidation, batch, etc. Low temperature thermal desorption (also called Low Temperature Volatilization) heats (directly or indirectly) contaminated media such as soil, sediments, sludges and filter cakes between 200 - 1000 degrees F, driving off water and volatile contaminants. The volatile contaminants may be burned in an afterburner, condensed to reduce the volume to be disposed of, oxidized through catalytic oxidation or captured by carbon adsorption beds. Auxiliary equipment includes shredders, conveyors, blowers, fuel system, instrumentation and controls, bag houses, scrubbers, and treated material handling systems.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	14	03	Volume of waste material	MGA (KLI)	SUPERCRITICAL WATER OXIDATION Remedial action. Supercritical water oxidation decontaminates wastewater by heating it above the critical point of water and adding an oxidant such as air, oxygen, or hydrogen peroxide to oxidize the organic contaminants to mainly carbon dioxide and water. Resultant gases such as CO ₂ , N ₂ , and NO _x (from nitrogen compounds) are removed as the effluent is cooled and depressurized. Halogenated compounds produce the corresponding halogen acids and sulfur-containing compounds produce sulfuric acid.
331XX	14	04	Volume of waste material	CY (M3)	MOLTEN SALT DESTRUCTION Remedial action. Molten salt destruction is the combustion of waste materials in a bed of molten salt. Wastes are fed into a vessel containing the molten salt and air in which the high rate of heat transfer to the wastes causes destruction. Melt removal can be continuous or in batch mode. A variety of salts are used, with the most common being sodium carbonate and potassium carbonate. Assemblies for molten salt destruction include salts, incinerators, storage systems, filtration systems, dewatering pretreatment systems, plus a secondary reactor and cleanup system for offgases.
331XX	14	05	Volume of waste material	CY (M3)	RADIO FREQUENCY HEATING Remedial action. Radio frequency heating includes heating soil with radio frequency waves to thermally decompose, vaporize, and distill hazardous constituents. Vapors emitted from the soil are collected in a vapor barrier above the soil surface for treatment or incineration.
331XX	14	06	Volume of waste material	CY (M3)	SOLAR DETOXIFICATION Remedial action. Solar detoxification photolytically degrades vaporized soil contaminants in a solar reactor into which sunlight is focused from a parabolic mirror array. The vaporized contaminants flow into the reactor after being desorbed from the soil when the latter is heated to about 750 degrees F.
331XX	14	07	Volume of waste material	CY (M3)	HIGH TEMPERATURE THERMAL DESORPTION Remedial action. High temperature thermal desorption unit >340 deg C (> 650 deg F) is suitable for treatment of material contaminated by organic compounds that are classified as semivolatile. Oxygen levels may be limited or reduced to prevent combustion in the primary chamber.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	14	50	Each facility	EA (EA)	CONSTRUCTION OF PERMANENT PLANT FACILITY New remedial action construction of a permanent plant facility to remediate wastes through any of the technology subsystems listed above (331XX.14). Add a note for this item to explain which of the above subsystem technologies are used in the plant and note the rated capacity of the plant such as MGA/DAY (KLI/DAY), CY/DAY (M3/DAY), etc.
331XX	14	9x			OTHER (Use Numbers 90-99) Includes all thermal treatment during remedial action not described by the above listed subsystems.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	15				STABILIZATION/FIXATION/ENCAPSULATION Includes operation (separate items for each subsystem technology) of the plant facility during the remedial action phase, based on the volume of waste material treated, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.15.(01-.07.)). Includes a separate item for the construction of a permanent plant facility, including permanent treatment equipment which is purchased for one project only (331XX.15.50.). Stabilization/fixation/encapsulation processes attempt to improve the handling and physical characteristics of the wastes, decrease the surface area, limit the solubility of any pollutants and detoxify contained pollutants. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).
331XX	15	01	Volume of waste material	CY (M3)	MOLTEN GLASS Remedial action. Molten glass is used in destroying combustible hazardous organic wastes and/or encapsulating the solid byproducts. During the process a pool of molten glass is developed and maintained by a high amount of electrical current passing between submerged electrodes. Combustible gases are mixed with air, ignite and react above the pool of molten glass. Solids and noncombustible materials are incorporated into the glass bed, while gases are pulled out of the chamber through a series of filters. Assemblies include pretreatment systems (evaporation and sedimentation), conveyors, sumps used to collect settling particles, heat recovery and air pollution control systems. Does not include the excavation and transport of contaminated material, see "Solids Collection and Containment" (331XX.08) and "Liquids/Sediments/Sludges Collection and Containment" (331XX.09).
331XX	15	02	Volume of waste material	CY (M3)	IN-SITU VITRIFICATION Remedial action. In-situ vitrification is the in-place encapsulation of contaminated soils and sludges into a solid glassy matrix by melting the soil using large amounts of electrical current. Assemblies include electrical generators, electrical power distribution, electrodes, graphite placed over the soil to establish a conductive path and exhaust hood system to capture gaseous wastes.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	15	03	Volume of waste material	CY (M3)	IN-SITU POZZOLAN PROCESS (LIME/PORTLAND CEMENT) Remedial action. In-situ Pozzolan Process is the in-place encapsulation of waste material by combining pozzolanic (siliceous) material, lime, or portland cement with water to form a concrete-like solid and left in place, encapsulating the waste. Pozzolan material includes fly ash, blast-furnace slag and cement kiln dust.
331XX	15	04	Volume of waste material	CY (M3)	POZZOLAN PROCESS (LIME/PORTLAND CEMENT) Remedial action. Pozzolan (siliceous) material, lime, or portland cement, and water are mixed to form a concrete-like solid matrix in which the waste is encapsulated. Batchmixers or pugmills are routinely used for the mixing of waste material, pozzolan material and water. Pozzolan material includes fly ash, ground blast-furnace slag, and cement kiln dust. Does not include the excavation and transport of contaminated material, see "Solids Collection and Containment" (331XX.08) and "Liquids/Sediments/Sludges Collection and Containment" (331XX.09).
331XX	15	05	Volume of waste material	CY (M3)	ASPHALT-BASED ENCAPSULATION Remedial action. Asphalt-based encapsulation uses asphalt to form a matrix encapsulating contaminated liquid or solid wastes. The process entails mixing waste and asphalt together, placement in a mold, and heating until they fused together in a stable matrix. Asphalt-based encapsulation include dewatering, organic polymers, lime, kiln dust, or portland cement.
331XX	15	06	Volume of waste material	CY (M3)	RADIOACTIVE WASTE SOLIDIFICATION (GROUTING/OTHER) Remedial action. Radioactive waste solidification additives are used to form a uniform and stable matrix to encapsulate radioactive waste materials. Assemblies include pumps for liquids or slurries, conveyors for sludges or solids, storage silos, weigh feeders, piping, mixers and disposal or storage.
331XX	15	07	Volume of waste material	CY (M3)	SLUDGE STABILIZATION (AGGREGATE/ROCK/SLAG) Remedial action. Sludge stabilization is the solidification of contaminated wastes using aggregate, rock and slag additives to form a uniform and stable matrix to encapsulate waste materials. Sludge stabilization include pumps for liquids or slurries, conveyors for sludges or solids, storage silos, weigh feeders, piping, mixers and disposal or storage.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	15	50	Each facility	EA (EA)	CONSTRUCTION OF PERMANENT PLANT FACILITY New remedial action construction of a permanent plant facility to remediate wastes through any of the technology subsystems listed above (331XX.15). Add a note for this item to explain which of the above subsystem technologies are used in the plant and note the rated capacity of the plant such as MGA/DAY (KLI/DAY), CY/DAY (M3/DAY), etc.
331XX	15	9x			OTHER (Use Numbers 90-99) Includes all stabilization/fixation/encapsulation treatments during remedial action not described by the above listed subsystems.

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ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	17				DECONTAMINATION AND DECOMMISSIONING (D&D) Decontamination and decommissioning during remedial action are all activities associated with shutdown and final cleanup of a nuclear or other facility. Includes facility shutdown and dismantling activities, preparation of decommissioning plans, procurement of equipment and materials, research and development, spent fuel handling, and hot cell cleanup.
331XX	17	01	Total footprint area of facility	SF (M2)	PRE-DECOMMISSIONING OPERATIONS Pre-decommissioning operations during remedial action comprise development of the decommissioning plan, estimating dose and radioactivity levels, and licensing.
331XX	17	02	Total footprint area of facility	SF (M2)	FACILITY SHUTDOWN ACTIVITIES Facility shutdown activities are any activities during remedial action that are necessary for the closing of a nuclear or other facility. These include sampling, defueling, plant decontamination, inspections, and building entombment. For waste disposal see "Disposal (Other than Commercial)" (331XX.18) and "Disposal (Commercial)" (331XX.19).
331XX	17	03	Total footprint area of facility	SF (M2)	PROCUREMENT OF EQUIPMENT AND MATERIAL Provides for all work during remedial action associated with the procurement of dismantling, radiation protection, health physics, security and maintenance equipment.
331XX	17	04	Total footprint area of facility	SF (M2)	DISMANTLING ACTIVITIES Dismantling activities during remedial action are any activities which are part of the systematic disassembly of a nuclear or other facility. These include decontamination and/or isolation of areas, drainage and removal of fuel pool and linings, and removal of primary and auxiliary systems, and biological shields.
331XX	17	05	Total footprint area of facility	SF (M2)	RESEARCH AND DEVELOPMENT (R&D) - DECONTAMINATION/RADIATION MEASUREMENT/ DISMANTLING PROCESSES/TOOLS AND EQUIPMENT Research and development during remedial action includes data collection, development of new dismantling equipment and new technologies, R&D of robotic and manipulator technology, simulations, literature and status reviews.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	17	06	Total footprint area of facility	SF (M2)	SPENT FUEL HANDLING Spent fuel (high level waste) handling during remedial action includes all work associated with temporary and intermediate fuel storage, reprocessing, transferring, conditioning. For waste disposal see "Disposal (Other than Commercial)" (331XX.18) and "Disposal (Commercial)" (331XX.19).
331XX	17	07	Total footprint area of facility	SF (M2)	HOT CELL CLEANUP Hot cell cleanup is the decontamination of hot cells during remedial action to allow a minimum of Level C manned entry prior to the startup of further research projects in the hot cell. These activities include inspection, radioactive surveys, dismantling, cell and equipment decontamination, maintenance and cleaning, and transport of materials and equipment. Decontamination techniques include CO, blasting, electropolishing, chemical immersion, vacuum blasting and scabbling.
331XX	17	9X			OTHER (Use Numbers 90-99) Includes all remedial action decontamination and dismantling work not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	18				DISPOSAL (OTHER THAN COMMERCIAL) Includes operation (separate items for each subsystem disposal method) of the plant facility during the remedial action phase, based on the volume of waste material disposed, including portable treatment equipment which is charged on a time basis and can be used on more than one project (331XX.18.01.-10.). Includes a separate item for the construction of a permanent disposal facility, including permanent disposal equipment, which is purchased for one disposal facility only (331XX.18.15.). Disposal (Other than Commercial) provides for the final placement of HTRW or ordnance at facilities owned or controlled by the Government. An example would be the disposal of wastes through burial at a DOE nuclear facility or ordnance disposal at DOD facilities. Includes handling, disposal fees, and transportation to the final Destruction/Disposal/Storage facility. Excluded is the transportation to a facility for treatment prior to final disposal. For transportation prior to final disposal see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04). Disposal may be accomplished through the use of secure landfills, burial grounds, trench, pits, above ground vault, underground vault, underground mine/shaft, tanks, pads (tumulus / retrievable storage, other), storage buildings or protective cover structures, cribs, deep well injection, incinerator, or other.
331XX	18	01	Volume of waste material	CY (M3)	LANDFILL / BURIAL GROUND / TRENCH / PITS Provides for operation of a landfill, burial ground, burial trench, or burial pits during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).
331XX	18	02	Volume of waste material	CY (M3)	ABOVE GROUND VAULT Provides for operation of an above ground disposal vault during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).
331XX	18	03	Volume of waste material	CY (M3)	UNDERGROUND VAULT Provides for operation of an underground disposal vault during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).
331XX	18	04	Volume of waste material	CY (M3)	UNDERGROUND MINE / SHAFT Provides for operation of an underground disposal mine/shaft during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	18	05	Volume of waste material	MGA (KLI)	TANKS Provides for operation of disposal storage tanks during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).
331XX	18	06	Volume of waste material	CY (M3)	PADS (TUMULUS / RETRIEVABLE STORAGE / OTHER) Provides for operation of a disposal pads (tumulus, retrievable storage, or other) during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).
331XX	18	07	Volume of waste material	CY (M3)	STORAGE BLDGS / PROTECT CVR STRUCT / OTHER BLDGS & STRUCT Provides for operation of disposal storage buildings, protective cover structures, or other disposal storage structures during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).
331XX	18	08	Volume of waste material	CY (M3)	CRIBS Provides for operation of disposal cribs during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).
331XX	18	09	Volume of waste material	MGA (KLI)	DEEP WELL INJECTION Provides for operation of a deep well injection facility during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).
331XX	18	10	Volume of waste material	CY (M3)	INCINERATOR Provides for operation of an incinerator during the remedial action phase. For disposal taxes and fees charged between agencies or departments, see "Disposal Fees and Taxes" (331XX.18.22).
331XX	18	15	Each facility	EA (EA)	CONSTRUCTION OF PERMANENT DISPOSAL FACILITY New remedial action construction of a permanent disposal facility to dispose of wastes through any of the disposal methods listed above (331XX.18). Add a note for this item to explain which of the above subsystem disposal methods are used in the plant.
331XX	18	20	Number of waste containers	EA (EA)	CONTAINER HANDLING Provides for all work during remedial action associated with the handling of waste containers for periodic inventory or inspection. Does not include placement of waste into disposal units.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	18	21	Weight of waste material	TON (MT)	TRANSPORTATION TO STORAGE/DISPOSAL FACILITY Transport to storage/disposal facility during remedial action includes equipment, materials, and labor for hauling, loading and unloading of solid waste and liquid wastes.
331XX	18	22	Weight of waste material	TON (MT)	DISPOSAL FEES AND TAXES Provides for all fees and taxes charged during remedial action for the disposal of wastes. These include fees and taxes charged between agencies, departments and activities at government facilities.
331XX	18	23	Weight of waste material	TON (MT)	MIXED WASTE STORAGE FEES AND TAXES Provides for all fees and taxes charged during remedial action for the storage of mixed wastes at government facilities.
331XX	18	9x			OTHER (Use Numbers 90-99) Includes all disposal (other than commercial) during remedial action not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	19				DISPOSAL (COMMERCIAL) Commercial disposal during remedial action provides for the final placement of HTRW at third party commercial facilities that charge a fee to accept waste depending on a variety of waste acceptance criteria. Fees are assessed based on different waste categories, methods of handling, and characterization. Disposal may be accomplished through the use of secure landfills, burial grounds, trench, pits, above ground vault, underground vault, underground mine/shaft, tanks, pads (tumululus / retrievable storage, other), storage buildings or protective cover structures, cribs, deep well injection, incinerator, or other. Includes transportation to the final Destruction/Disposal/Storage facility. Excludes transportation to a facility for treatment prior to final disposal. For transportation see "Transport to Treatment Plant" (331XX.05.11, 331XX.06.08, 331XX.08.03 or 331XX.09.04).
331XX	19	20	Number of waste containers	EA (EA)	CONTAINER HANDLING Provides for all work during remedial action associated with the handling of waste containers for periodic inventory or inspection. Does not include placement of waste into disposal units.
331XX	19	21	Weight of waste material	TON (MT)	TRANSPORTATION TO STORAGE/DISPOSAL FACILITY Transport to storage/disposal facility during remedial action includes equipment, materials, and labor for hauling, loading and unloading of solid and liquid wastes.
331XX	19	22	Weight of waste material	TON (MT)	DISPOSAL FEES AND TAXES Provides for all fees and taxes charged during remedial action for the disposal of wastes. These include fees and taxes charged at third party/commercial facilities.
331XX	19	23	Weight of waste material	TON (MT)	MIXED WASTE STORAGE FEES AND TAXES Provides for all fees and taxes charged during remedial action for the storage of mixed wastes at third party/commercial facilities.
331XX	19	9x			OTHER (Use Numbers 90-99) Includes all commercial disposal during remedial action not described by the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	20				SITE RESTORATION Site restoration during remedial action includes topsoil, seeding, landscaping, restoration of roads and parking, and other hardscaping disturbed during site remediation. Note that all vegetation and planting is to be included as well as the installation of any site improvement damaged or altered during construction. All vegetation and planting for the purpose of erosion control during construction activities should be placed under "Erosion Control" (331XX.05.13). Treated soil used as backfill will be placed under "Disposal (Other than Commercial)" (331XX.18). All new site improvements, those not disturbed during construction, are to be included under "Sitework" (331XX.03).
331XX	20	01	Volume of material	CY (M3)	EARTHWORK Includes stripping topsoil, excavation, backfill, compaction, fine grading, hauling spoil, importation of borrow material and topsoil during remedial action.
331XX	20	02	Number of markers	EA (EA)	PERMANENT MARKERS Provides for the establishment of permanent markers during remedial action.
331XX	20	03	Number of features	EA (EA)	PERMANENT FEATURES Provides for the re-establishment during remedial action of pre-existing roads, bridges, buildings, structures and utilities which were in place prior to construction. For temporary relocation of roads/structures/utilities, see "Temporary Relocations" (331XX.01.06).
331XX	20	04	Total area	ACR (HEC)	REVEGETATION AND PLANTING Revegetation and planting provides for the complete restoration of areas affected by remedial action construction. This includes fine grading and leveling of topsoil, seeding, mulching, fertilizer, sodding, erosion control, shrubs, and trees.
331XX	20	05	Number of barriers	EA (EA)	REMOVAL OF BARRIERS Provides for the removal of all temporary barriers and fencing erected during remedial action construction.
331XX	20	9X			OTHER (Use Numbers 90-99) Includes all site remedial action restoration activities not described in the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	21				DEMobilIZATION Provides for all work associated with remedial action plant takedown and removal of temporary facilities, utilities, equipment, material, and personnel.
331XX	21	01	Each facility	EA (EA)	REMOVAL OF TEMPORARY FACILITIES Removal during remedial action of temporary facilities includes demobilization and dismantling of office trailers, storage and decontamination facilities, and other temporary facilities.
331XX	21	02	Each utility	EA (EA)	REMOVAL OF TEMPORARY UTILITIES Provides for the dismantling and disconnection of project utilities during remedial action including site power and lighting, telephone/communication service, water, sewer and gas service.
331XX	21	03	Each project	EA (EA)	FINAL DECONTAMINATION Final decontamination provides for all work associated with the cleaning and decontamination of equipment and other facilities used for remedial action.
331XX	21	04	Each item mobilized	EA (EA)	DEMobilIZATION OF CONSTRUCTION EQUIPMENT AND FACILITIES Work associated with demobilization of remedial action construction equipment and temporary facilities. Includes transportation, manifests, tolls, permits, escort vehicles, drivers, and equipment operators. Also see "Construction Plant Takedown" (331XX.21.07).
331XX	21	05	Number of personnel	EA (EA)	DEMobilIZATION OF PERSONNEL Demobilization of remedial action personnel includes relocation of supervisory personnel and workmen after project completion.
331XX	21	06	Each submittal	EA (EA)	SUBMITTALS Submittals are incurred for obtaining all necessary site clean closure documentation. These include all final reports, punch lists, project acceptance, final QA/QC reports and As-Built Drawings during remedial action.
331XX	21	07	Each plant	EA (EA)	CONSTRUCTION PLANT TAKEDOWN Construction plant takedown includes dismantling of batch plants, cleaning, disposal of debris, and transport of plant equipment during remedial action.
331XX	21	9X			OTHER (Use Numbers 90-99) Includes all remedial action demobilization work not described in the above listed subsystems.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM ENG(MET)	STANDARD DESCRIPTION
331XX	22				GENERAL REQUIREMENTS General remedial action requirements which are not specifically identifiable in the other systems such as indirect, overhead, profit, and other general requirements. This system is OPTIONAL. It may be used to separately show general requirements; however, if it is not used, general requirements must be distributed throughout in the other systems.
331XX	22	01	Duration on site	MO (MO)	SUPERVISION AND MANAGEMENT Personnel, vehicles, and per diem required for field supervision and management of remedial action work. Also includes personnel at the home office not captured under home office G&A (331XX.22.12.).
331XX	22	02	Duration on site	MO (MO)	ADMINISTRATION JOB OFFICE Personnel, vehicles, travel and per diem, and administrative supplies required for field administration of remedial action work. Also includes personnel at the home office not captured under home office G&A (331XX.22.12.).
331XX	22	03	Duration on site	MO (MO)	WAREHOUSE, MATERIALS HANDLING, AND PURCHASING Personnel, vehicles, travel and per diem, supplies and equipment required for field warehouse, materials handling, and purchasing for remedial action work.
331XX	22	04	Duration on site	MO (MO)	ENGINEERING, SURVEYING AND QUALITY CONTROL Personnel, vehicles, travel and per diem, supplies, equipment, and engineering services required for field engineering, surveying, and quality control/assurance for remedial action work. Also includes personnel at the home office not captured under home office G&A (331XX.22.12.).
331XX	22	05	Duration on site	MO (MO)	EQUIPMENT MAINTENANCE AND MOTOR POOL Personnel, vehicles, travel and per diem, equipment, and related items required for field construction equipment maintenance and motor pool for remedial action work.
331XX	22	06	Duration on site	MO (MO)	FIRST AID, FIRE PROTECTION, TRAFFIC CONTROL AND SECURITY Personnel, vehicles, travel and per diem, equipment, and related items for field first aid, fire protection, traffic control and security for remedial action work.
331XX	22	07	Duration on site	MO (MO)	HEALTH AND SAFETY Personnel, vehicles, travel and per diem, protective equipment, personnel protective equipment and clothing, monitoring, training, exams, and related items required for field health and safety for remedial action work.

HTRW REMEDIAL ACTION WORK BREAKDOWN STRUCTURE

ACCOUNT (LEVEL 1)	SYSTEM (LEVEL 2)	SUBSYSTEM (LEVEL 3)	DESCRIPTION OF MEASUREMENT	UOM (ENGINEER)	STANDARD DESCRIPTION
331XX	22	08	Duration on site	MO (MO)	TEMPORARY CONSTRUCTION FACILITIES - OWNERSHIP Ownership or rental for field office trailers, facilities, and related items for temporary construction facilities for remedial action work. Excluded are initial setup or construction of the temporary facilities, which is included in "Mobilization and Preparatory Work" (331XX.01.), and final takedown or removal of the temporary facilities, which is included in "Demobilization" (331XX.21.).
331XX	22	09	Duration on site	MO (MO)	TEMPORARY CONSTRUCTION FACILITIES - OPERATION Personnel, vehicles, travel and per diem, supplies, services, and related items for the operation of temporary construction facilities during remedial action work.
331XX	22	10	Duration on site	MO (MO)	PROJECT UTILITIES Usage of temporary project utilities during remedial action work. Excluded is the construction of the temporary project utilities, which is included in "Mobilization and Preparatory Work" (331XX.01.), and the removal of the temporary project utilities, which is included in "Demobilization" (331XX.21.).
331XX	22	11	Duration on site	MO (MO)	MISCELLANEOUS PROJECT EXPENSES Programs (such as startup programs and craft qualification programs), photographs, videos, air freight, submittals and permits following preparatory work, signs, winterization, inventory, property protection, vehicles, travel and per diem, and other miscellaneous project expenses during remedial action work.
331XX	22	12	Duration on site	MO (MO)	INSURANCE, INTEREST, AND FEES Insurance, interest, home office overhead, profit, and bond for remedial action work.
331XX	22	9X			OTHER (Use Numbers 90-99) Includes all general requirements during remedial action demobilization work not described in the above listed subsystems.