

AWARD/CONTRACT	1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)	RATING DO-C9	PAGE OF PAGES 1
2. CONTRACT (Proc. Inst. Ident.) NO. NNA05AC42C	3. EFFECTIVE DATE See Block 20C	4. REQUISITION/PURCHASE REQUEST/PROJECT NO. 4200099177	
5. ISSUED BY NASA Ames Research Center Attn: Wendy L. Takeguchi, Mail Stop 241-1 Moffett Field, CA 94035-1000	6. ADMINISTERED BY (if other than Item 6)	CODE	

7. NAME AND ADDRESS OF CONTRACTOR (No. street, county, state and ZIP Code) ISSi, Inc. 1700 North Broadway, Suite 360 Walnut Creek, CA 94596 TIN NO. 94-3323052	8. DELIVERY <input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER (See below)
	9. DISCOUNT FOR PROMPT PAYMENT
	10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN: ITEM See Block 12

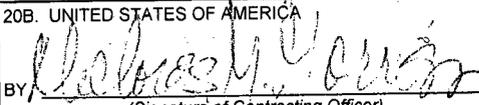
11. SHIP TO/MARK FOR See Section F.3, Deliveries or Performance	CODE See F.3	12. PAYMENT WILL BE MADE BY NASA Ames Research Center Cost Accounting Branch Code CFS, M/S 203-18 Moffett Field, CA 94035-1000	CODE CFS:203-18
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13. AUTHORITY FOR USING OTHER FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c)(1) <input type="checkbox"/> 41 U.S.C. 253(c)(1)	14. ACCOUNTING AND APPROPRIATION DATA PR # 4200099177, \$150,000.00 PPC: GF
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15A. ITEM NO.	15B. SUPPLIES/SERVICES	15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT
				<u>Est. Cost/Award Fee</u>	
01	Phase-In Period	1	LOT	\$122,042	
02	Environmental Services	1	LOT	\$7,215,643	\$122,042
03	Additional Requirements for Environmental Services	1	LOT	382,833	\$7,598,476
	(See page 2 continuation sheet)			\$3,990,000	
				279,300	\$4,269,300
15G. TOTAL AMOUNT OF CONTRACT					\$11,989,818

16. TABLE OF CONTENTS					
(✓) SEC.	DESCRIPTION	PAGE(S)	(✓) SEC.	DESCRIPTION	PAGE(S)
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B	SUPPLIES OR SERVICES AND PRICE/COST		PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.		
C	DESCRIPTION/SPECS./WORK STATEMENT		J	LIST OF ATTACHMENTS	
D	PACKAGING AND MARKING		K. CONDITIONS AND INSTRUCTIONS		
E	INSPECTION AND ACCEPTANCE		L. CERTIFICATIONS		
F	DELIVERIES OR PERFORMANCE		M. STATEMENTS OF OFFERORS		
G	CONTRACT ADMINISTRATION DATA		L	INSTRS., CONDS., AND NOTICES TO OFFERORS	
H	SPECIAL CONTRACT REQUIREMENTS		M	EVALUATION FACTORS FOR AWARD	
CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE					

17. <input type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return 1 copy to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)	18. <input checked="" type="checkbox"/> AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number <u>NNA04055714R-WLT</u> including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.
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19A. NAME AND TITLE OF SIGNER (Type or print)	20A. NAME OF CONTRACTING OFFICER DOLORES M. MORRISON
19B. NAME OF CONTRACTOR	20B. UNITED STATES OF AMERICA
19C. DATE SIGNED	20C. DATE SIGNED 2-4-05
(Signature of person authorized to sign)	BY  (Signature of Contracting Officer)

ITEM 15B. SUPPLIES/SERVICES (CONTINUED)

- ✓ 1. ISSi's Section B, proposed prices, dated 8/30/04 is hereby incorporated into and made a part of this contract, see Paragraphs B.1, B.2, and B.3.
2. Paragraph H.11, KEY PERSONNEL AND FACILITIES (NASA 1852.235-71) (MAR 1989), paragraph (c), contractor proposed Key Personnel are now included.
3. The offeror's completed Section K (Representations, Certifications, and Other Statements) submitted in response to NNA04055714R-WLT is hereby incorporated by reference.
4. Statement of Requirement now includes all changes made by amendments 1, 2 and 3.
5. Contract funding is shown below:

B.4 CONTRACT FUNDING (NFS 18-52.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is B-4 This allotment is for Environmental Services, line items 01 & 02 and covers the following estimated period of performance: February 6, 2005 through March 5, 2005.

(b) An additional amount of B-4 is obligated under this contract for payment of fee.

(End of clause)

SOLICITATION, OFFER AND AWARD			1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFG 700)		RATING DO-C9	PAGE 1	OF PAGES 92
2. CONTRACT NO.	3. SOLICITATION NO. NNA04055714R-WLT	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED July 16, 2004	6. REQUISITION/PURCHASE NO.		
7. ISSUED BY NASA Ames Research Center Attn: Wendy Takeguchi, M/S 241-1 Moffett Field, CA 94035-1000		CODE	8. ADDRESS OFFER TO (If other than Item 7)				

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder"
SOLICITATION

9. Sealed offers in **original and 7 copies** for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8 or, if handcarried, in the depository located in **Bldg. 241, Room 258** by **August 30, 2004** until **1:00 PM** local time.

CAUTION — LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:	A. NAME Wendy L. Takeguchi	B. TELEPHONE NO. (NO COLLECT CALLS) (650) 604-3008	C. EMAIL ADDRESS wtakeguchi@mail.arc.nasa.gov
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OFFER (Must be fully completed by offeror)

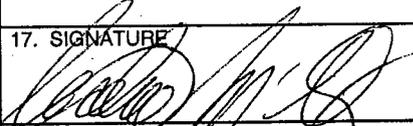
NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within **180** calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52.232-8)	10 CALENDAR DAYS %	20 CALENDAR DAYS %	30 CALENDAR DAYS %	CALENDAR DAYS %
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14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE
	One (1) Three (3)	8/11/2004 8/25/2004	Two (2)	8/20/2004

15A. NAME AND ADDRESS OF OFFEROR ISSI 1700 North Broadway, Suite 360 Walnut Creek, CA 94596	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print) Cecelia McCloy, President
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15B. TELEPHONE NO. AREA CODE 925	979-1535	EXT	<input type="checkbox"/> 15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.	17. SIGNATURE 	18. OFFER DATE 8/30/04
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AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION
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22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c) () <input type="checkbox"/> 41 U.S.C. 253(c) ()	23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)	ITEM 25
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24. ADMINISTERED BY (If other than Item 7) CODE	25. PAYMENT WILL BE MADE BY NASA Ames Research Center Accounting Operations Branch, Mail Stop 203-18 Moffett Field, CA 94035-1000	CODE CFS:203-18
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26. NAME OF CONTRACTING OFFICER (Type or print)	27. UNITED STATES OF AMERICA (Signature of Contracting Officer)	28. AWARD DATE
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IMPORTANT -- Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

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**PART
I - THE SCHEDULE**

SECTION B - SUPPLIES OR SERVICES AND PRICE/COSTS

B.1 SUPPLIES/SERVICES TO BE PROVIDED (ARC 52.211-94) (FEB 1997)

(a) The contractor shall provide all resources (except as may be expressly stated in this contract as furnished by the Government) necessary to furnish the items below in accordance with the Statement of Requirements (SOR) in Section C.

<u>Item No.</u>	<u>Description</u>	<u>Qty/Unit</u>	<u>Est Cost</u>	<u>Fee</u>	<u>Total Cost & Fee</u>
<u>PHASE-IN PERIOD</u>					
01	Phase-In for the period set forth in Section F, paragraph F.2(a), in accordance with the Phase-In Plan.	1 LOT			\$122,042
<u>BASE PERIOD</u>					
02	Environmental Services as described by the SOR, except Section 5, for the period set forth in Section F, paragraph F.2(b).	1 LOT		B-4	\$7,598,476
03	Additional Requirements for Environmental Services in accordance with Section 5, for the period set forth in Section F, paragraph F.2(b). Work for additional services will be issued under separate tasks.	1 LOT			\$4,269,300

(b) Pursuant to Section I, FAR 52-217-9, "Option to Extend the Term of the Contract", the contractor shall provide all resources (except as may be expressly stated in this contract as furnished by the Government) necessary to furnish the items below in accordance with the Statement of Requirements (SOR) in Section C.

OPTION PERIOD ONE

04	Environmental Services as described by the SOR, except Section 5, for the period set forth in Section F, paragraph F.2(c)	1 LOT	\$4,000,849
05	Additional Requirements for Environmental Services in accordance with Section 5, for the period set forth in Section F, paragraph F.2(c). Work for additional services will be issued under separate tasks.	1 LOT	\$2,359,350

OPTION PERIOD TWO

06	Environmental Services as described by the SOR, except Section 5, for the period set forth in Section F, paragraph F.2(d).	1 LOT	\$4,133,475
07	Additional Requirements for Environmental Services in accordance with Section 5, for the period set forth in Section F, paragraph F.2(d). Work for additional services will be issued under separate tasks.	1 LOT	\$2,359,350

(End of Clause)

B.2 ESTIMATED COST AND AWARD FEE (NFS 18-52.216-85) (SEP 1993)

PHASE-IN AND BASE PERIOD:

The estimated cost of this contract is [B-4]. The maximum available award fee, excluding base fee, if any, is [B-4]. The base fee is [B-4]. Total estimated cost, base fee, and maximum award fee are \$11,989,818.

OPTION PERIOD ONE:

The estimated cost of this contract is [B-4]. The maximum available award fee, excluding base fee, if any, is [B-4]. The base fee is [B-4]. Total estimated base fee, and maximum award fee are \$6,360,199.

OPTION PERIOD TWO:

The estimated cost of this contract is [B-4]. The maximum available award fee, excluding base fee, if any, is [B-4]. The base fee is [B-4]. Total estimated base fee, and maximum award fee are \$6,492,825.

(End of Clause)

B.3 CONTRACT VALUE SUMMARY TABLE

	Base Period	Option 1	Option 2	Total
Phase In	[B-4]			[B-4]
Estimated Cost				
Unearned Award Fee				
Earned Award Fee				
Total CPAF				

B.4 CONTRACT FUNDING (NFS 18-52.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is \$TBD. This allotment is for TBD and covers the following estimated period of performance: TBD.

(b) An additional amount of \$TBD obligated under this contract for payment of fee.

(End of clause)

[END OF SECTION]

SECTION C - DESCRIPTION/SPECIFICATION/WORK STATEMENT

C.1 DESCRIPTION/SPECIFICATION/WORK STATEMENT

(a) In accordance with the contract's terms and conditions, the Contractor shall furnish all personnel, services, equipment and materials unless otherwise specified in the Statement of Requirements and Clauses G.5 and G.6 of this document and do all other things necessary for, or incidental to performance of the requirements set forth herein.

(b) Work shall be accomplished in accordance with the Statement of Requirements incorporated in Section J.

(End of Clause)

[END OF SECTION]

SECTION D - PACKAGING AND MARKING**D.1 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (FEB 1998)**

This contract incorporates one or more clauses 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. Also, the full text of a clause may be accessed electronically at these addresses:

<http://www.arnet.gov/far/>

<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE
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None included by reference.

II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

CLAUSE NUMBER	DATE	TITLE
------------------	------	-------

None included by reference.

(End Of Clause)

D.2 PACKAGING AND MARKING (ARC 52.211-95) (ALTERNATE I) (FEB 1997)

(a) The contractor shall preserve, pack, and mark for shipment all items deliverable under this contract in accordance with good commercial practices and adequate to ensure both acceptance by common carrier and safe transportation at the most economical rate(s).

(b) The contractor's markings on shipping containers shall be clearly legible from a distance of 36 inches or as required by applicable regulations. The contractor may mark by stencil, rubber stamp, or lacquer over a coated gummed label.

(c) The Contractor shall place identical requirements on all subcontracts.

(End of clause)

[END OF SECTION]

SECTION E - INSPECTION AND ACCEPTANCE**E.1 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (FEB 1998)**

This contract incorporates one or more clauses 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. Also, the full text of a clause may be accessed electronically at these addresses:

<http://www.arnet.gov/far/>

<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE
52.246-5	APR 1984	INSPECTION OF SERVICES-- COST- REIMBURSEMENT
52.246-3	MAY 2001	INSPECTION OF SUPPLIES--COST- REIMBURSEMENT

II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

CLAUSE NUMBER	DATE	TITLE
------------------	------	-------

None included by reference.

(End of Clause)

[END OF SECTION]

SECTION F - DELIVERIES OR PERFORMANCE**F.1 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (FEB 1998)**

This contract incorporates one or more clauses 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. Also, the full text of a clause may be accessed electronically at these addresses:

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<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE
52.242-15	AUG 1989	STOP-WORK ORDER (ALTERNATE I) (APR 1984)
52.247-34	NOV 1991	F.O.B. DESTINATION

II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

CLAUSE NUMBER	DATE	TITLE
None included by reference		

None included by reference

(End of Clause)

F.2 PERIOD OF PERFORMANCE (ARC 52.211-100) (JUL 1997)**(a) PHASE-IN PERIOD**

The Phase-In period of this contract shall begin on February 6, 2005, and continue through March 5, 2005.

(b) BASE PERIOD

The period of performance of this contract shall be from March 6, 2005, through March 5, 2007.

(c) OPTION PERIOD ONE

If exercised, the period of performance of option period one shall be from March 6, 2007, through March 5, 2008.

(d) OPTION PERIOD TWO

If exercised, the period of performance of option period two shall be from March 6, 2008, through March 5, 2009.

(End of Clause)

F.3 PLACE OF PERFORMANCE (ARC 52.237-90) (FEB 1997)

The contractor shall perform the work under this contract at locations specified in the Statement of Requirements, and at such other locations as may be approved in writing by the Contracting Officer.

(End of Clause)

F.4 DELIVERY OF REPORTS (ARC 52.211-92)(FEB 1997)

Unless otherwise specified, all reports shall be addressed to NASA-Ames Research Center, Moffett Field, CA 94035-1000, marked with the contract number, to the attention of the listed recipients, and in accordance with the following delivery schedule. A copy of the transmittal letter for each report shall be forwarded to the Contracting Officer.

Item Report	Delivery Date	Qty	Recipient
(a) Standard Operating Procedures (SOPs)	Not later than 180 days after contract effective date.	One (1) copy	Contract Specialist (CS), M/S 241-1
		One (1) copy	Contracting Officer's Technical Representative (COTR), M/S 218-1
(b) Technical Progress Reports	Not later than (2) working days following the end of the month.	One (1) copy	CS, M/S 241-1
		Two (2) copies	COTR, M/S 218-1
(c) Contract Task Orders (CTOs)	As required by individual CTOs.	One (1) copy	CS, M/S 241-1
		One (1) copy	COTR, M/S 218-1

Item	Report	Delivery Date	Qty	Recipient
(d)	Contractor Monthly Accident Report (Form ARC 15)	Not later than ten (10) calendar days after the end of the month being reported.	Original	Electronic
(e)	Phase-Out Plan	120 days prior to contract completion	One (1) copy	CS, M/S 241-1
			Four (4) copies	COTR, M/S 218-1
(f)	Initial Financial Management Report (NASA Form 533Q)	Not later than thirty (30) days after contract effective date	One (1) original (electronic)	CS, M/S 241-1
			One (1) copy (electronic)	COTR, M/S 218-1
			One (1) copy	Financial Management Division, M/S 203-17
			One (1) copy	Resource Management Office (RMO), M/S 201-2
(g)	Monthly Financial Management Report (NASA Form 533M)	Not later than 10 working days following the close of the contractors' monthly accounting period.	One (1) original (electronic)	CS, M/S 241-1
			One (1) copy (electronic)	COTR, M/S 218-1
			One (1) copy	Financial Management Division, M/S 203-17
			One (1) copy	RMO, M/S 201-2

Item	Report	Delivery Date	Qty	Recipient
(h)	Quarterly Financial Management Report (NASA Form 533Q)	Not later than 15 th day of the month preceding the quarter being reported	One (1) original (electronic)	CS, M/S 241-1
			One (1) copy (electronic)	COTR, M/S 218-1
			One (1) copy	Financial Management Division, M/S 203-17
			One (1) copy	RMO, M/S 201-2
(i)	Monthly Service Center Status Report	Within five (5) working days after end of each month being reported	One (1) copy	CS, M/S 241-1
			One (1) copy	COTR, M/S 218-1
(j)	NASA Mishap Report (NASA Form 1627)	Within one (1) working day of mishap occurrence	One (1) original	Occupational Safety, Health and Medical Services Office, M/S 218-1
			One (1) copy	CS, M/S 241-1
			One (1) copy	COTR, M/S 218-1
(k)	Quarterly Report of Purchases	15 calendar days after the end of each quarter.	One (1) copy	CS, M/S 241-1
			One (1) copy	Supply and Equipment Management Officer (SEMO), M/S 255-2
(l)	Subcontract Consent Package	Minimum ten (10) days prior to subcontract award.	One (1) copy	CS, M/S 241-1
(m)	"DOD Industrial Plant Equipment Requisition" (DD Form 1419)	Within thirty (30) working days prior to acquisition or fabrication.	One (1) copy	CS, M/S 241-1

Item	Report	Delivery Date	Qty	Recipient
(n)	Safety and Health Plan (Final)	Within 30 days after issuance of Government comments on draft plan	One (1) copy	CS, M/S 241-1
			One (1) copy	COTR, M/S 218-1
(o)	Technical Reports	To be submitted IAW CTO	One (1) copy	COTR, M/S 218-1
(p)	Subcontracting Reports for Individual Contracts (SF 294)	IAW FAR 52.219-9, Small Business Subcontracting Plan and SF 294 instructions	One (1) copy	CS, Code JAI, M/S 241-1, Small Business Specialist, Code JAB M/S 241-1
	<i>For electronic submission see Section J.1(a), Attachment 2</i>			
(q)	Summary Subcontracting Report (SF 295)	IAW FAR 52.219-9, Small Business Subcontracting Plan, NSF1852.219-75 Small Business Subcontracting Reporting, and SF 295 instructions	One (1) copy	CS, Code JAI, M/S 241-1, Small Business Specialist, Code JAB M/S 241-1
	<i>For electronic submission see Section J.1(a), Attachment 2</i>			
(r)	IT Security Plan	NLT 30 days after contract award	One (1) copy	COTR, Code QE, M/S 218-1
			One (1) copy	CS, Code JAI, M/S 241-1
(s)	IT Security Training Report	NLT 5 days after the end of each month	One (1) copy	CS, Code JAI M/S 241-1

(End of Clause)

F.5 REPORTS OF WORK (ARC 52.227-95) (SEP 1998)

(a) Standard Operating Procedures (SOPs). The Contractor shall submit and update these procedures in accordance with (IAW) Statement of Requirements (SOR) 4.3.1.1.

(b) Technical Progress Reports. The Contractor shall submit separate monthly progress reports of all work accomplished during each reporting period throughout contract performance, IAW SOR 4.3.1. Reports shall be in narrative form, and brief and informal in content. Reports shall include--

- (1) A quantitative description of overall progress.
 - (2) An indication of any current problems which may impede performance and proposed corrective action.
 - (3) Tracking of progress compared to regulatory submittal date
 - (4) A discussion of the work to be performed during the next monthly reporting period.
- (c) Contract Task Orders (CTOs). The Contractor shall submit the CTOs IAW NFS 1852.216-80, Task Ordering Procedures and SOR 1.5.5.
- (d) Contractor Monthly Accident Report (Form ARC 15). The Contractor shall submit these reports IAW NFS 1852.223-70, "Safety and Health", and H.12 *Contractor Monthly Accident Reporting*.
- (e) Phase-Out Plan. The Contractor shall submit this plan 120 days prior to contract completion. This plan should be prepared in accordance with FAR 52.237-3, "Continuity of Services" and shall include transmission of SOPs to incoming contractor. It will also include the transmission of all electronic files, and any accompanying documentation to the incoming contractor.
- (f), (g), (h) Initial, Monthly, and Quarterly Financial Management Reports (NASA Forms 533Q and 533M). The contractor shall prepare these reports in accordance with NFS 1852.242-73 and NASA Procedural Requirement (NPR) 9501.2, both entitled "NASA Contractor Financial Management Reporting."

Reporting categories for shall be elements of cost including:

- direct labor hours (Prime contractor regular, overtime, and uncompensated overtime; subcontract hours)
- total direct labor hours
- direct labor dollars (prime contractor productive and overtime)
- overhead
- Other Direct Costs (ODCs) by category
- total ODCs
- General and Administrative (G&A) base
- G&A expense
- total prime contractor costs
- costs for each subcontractor (labor dollars, ODCs, and estimate of unbilled costs)
- total subcontract costs
- total costs (prime and subcontractor)
- fee, and
- total value.

The Contractor shall prepare separate reports for each CTO, and also include a summary report of all CTOs. All blocks on the form shall be completed as appropriate.

- (i) Monthly Service Center Status Report. The Contractor shall provide a summary report describing labor hours and costs (including material accruals) by task.

- (j) NASA Mishap Report (NASA Form 1627). The Contractor shall submit these reports IAW APG 1700.1, Ames Health and Safety Manual.
- (k) Quarterly Report of Purchases. The Contractor shall prepare this reports IAW NFS 1852.245-71, "Installation-Accountable Government Property," Alternate I.
- (l) Subcontract Consent Package. The Contractor shall prepare these packages IAW FAR 52.244-2, Subcontracts."
- (m) "DOD Industrial Plant Equipment Requisition" (DD 1419). The Contractor shall prepare these reports IAW NFS 1852.245-70, "Contractor Requests for Government-Owned Equipment".
- (n) Safety and Health Plan. The Contractor shall prepare this plan IAW NFS 1852.223-73, "Safety and Health".
- (o) Technical Reports. The Contractor shall provide these reports IAW SOR or CTO, as applicable.
- (p) SF 294, Subcontracting Report: The Contractor shall submit Subcontracting reports for Individual Contracts semi-annually in accordance with FAR 52.219-9, *Small Business Subcontracting Plan*, and the instructions listed on the form (SF 294). In lieu of hard-copy submission, the Contractor may submit SF 294s electronically using the NASA Acquisition Internet Service (NAIS) application called the Interim Subcontract Reporting System (iSRS). See https://prod.nais.nasa.gov/srs/iSRS_registration_help.html for registration information.
- (q) SF 295, Summary Subcontracting Report (SF 295): The Contractor shall submit Summary Subcontract reports semi-annually in accordance with FAR 52.219-9, *Small Business Subcontracting Plan*, NFS 1852.219-75, *Small Business Subcontracting Reporting*, and the instructions listed on the form (SF 295). In lieu of hard-copy submission, the Contractor may submit SF 295s electronically using the NASA Acquisition Internet Service (NAIS) application called the Interim Subcontract Reporting System (iSRS). See https://prod.nais.nasa.gov/srs/iSRS_registration_help.html for registration information.
- (r) IT Security Plan. The Contractor shall submit an IT Security Plan that meets the requirement set forth in NFS 1852.204-76, "Security Requirement for Unclassified Information Technology Resources."
- (s) Security Training Report. The Contractor shall submit an updated listing all Contractor personnel receiving IT security training pursuant to NFS 1852.204-76.
- (t) Submission. ARC clause 52.211-92, "Delivery of Reports," contains the delivery and distribution requirements for the reports described herein.

(End of Clause)

[END OF SECTION]

SECTION G - CONTRACT ADMINISTRATION DATA**G.1 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (FEB 1998)**

This contract incorporates one or more clauses 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. Also, the full text of a clause may be accessed electronically at these addresses:

<http://www.arnet.gov/far/>

<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE
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None included by reference.

II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

CLAUSE NUMBER	DATE	TITLE
1852.242-73	JUL 2000	NASA CONTRACTOR FINANCIAL MANAGEMENT REPORTING
1852.245-70	JUL 1997	CONTRACTOR REQUESTS FOR GOVERNMENT-OWNED EQUIPMENT

G.2 AWARD FEE FOR SERVICE CONTRACTS (NFS 1852.216-76) (JUN 2000)

(a) The contractor can earn award fee from a minimum of zero dollars to the maximum stated in NASA FAR Supplement clause 1852.216-85, "Estimated Cost and Award Fee" in this contract.

(b) Beginning 6 months after the effective date of this contract, the Government shall evaluate the Contractor's performance every 6 months to determine the amount of award fee earned by the Contractor during the period. The Contractor may submit a self-evaluation of performance for each evaluation period under consideration. These self-evaluations will be considered by the Government in its evaluation. The Government's Fee Determination Official (FDO) will determine the award fee amounts based on the Contractor's performance in accordance with the performance evaluation plan. The plan may be revised unilaterally by the Government prior to the beginning of any rating period to redirect emphasis.

- (c) The Government will advise the Contractor in writing of the evaluation results. The NASA Ames Research Financial Management Division will make payment based on the issuance of a unilateral modification by contracting officer.
- (d) After 85 percent of the potential award fee has been paid, the Contracting Officer may direct the withholding of further payment of award fee until a reserve is set aside in an amount that the Contracting Officer considers necessary to protect the Government's interest. This reserve shall not exceed 15 percent of the total potential award fee.
- (e) The amount of award fee which can be awarded in each evaluation period is limited to the amounts set forth in the Award Fee Matrix contained in the award fee plan. Award fee which is not earned in an evaluation period cannot be reallocated to future evaluation periods.
- (f) (1) Provisional award fee payments will be made under this contract pending the determination of the amount of fee earned for an evaluation period. If applicable, provisional award fee payments will be made to the Contractor on a monthly basis. The total amount of award fee available in an evaluation period that will be provisionally paid is the lesser of 80 percent or the prior period's evaluation score.
- (2) Provisional award fee payments will be superseded by the final award fee evaluation for that period. If provisional payments exceed the final evaluation score, the Contractor will either credit the next payment voucher for the amount of such overpayment or refund the difference to the Government, as directed by the Contracting Officer.
- (3) If the Contracting Officer determines that the Contractor will not achieve a level of performance commensurate with the provisional rate, payment of provisional award fee will be discontinued or reduced in such amounts as the Contracting Officer deems appropriate. The Contracting Officer will notify the Contractor in writing if it is determined that such discontinuance or reduction is appropriate.
- (4) Provisional award fee payments will be made prior to the first award fee determination by the Government.
- (g) Award fee determinations are unilateral decisions made solely at the discretion of the Government.

(End of Clause)

G.3 SUBMISSION OF VOUCHERS FOR PAYMENT (NASA 1852.216-87) (MAR 1998) (MODIFIED ARC/APR 2004)

- (a) Public vouchers for payment of costs shall include a reference to the contract number and the contractor's Taxpayer Identification Number (TIN#). Forward vouchers in accordance with the instructions in paragraph (d) below. Except as noted in paragraph (c) below, the address in (d)(3) is the designated billing office for cost vouchers for purposes of the Prompt Payment clause of this contract.
- (b) Reporting Requirements Under Taxpayer Relief Act of 1997:

(1) The Taxpayer Relief Act of 1997, enacted August 5, 1997, requires Federal executive agencies to file information returns (i.e., Form 1099-MISC) for payment of \$600 or more to corporations for services. Payments for services under certain confidential or classified contracts that meet the requirements of Internal Revenue Code Section 6050M(e) are excluded from the reporting requirements. This change became effective as of January 1, 1997.

(2) In order to comply with the Act, the contractor shall separately subtotal taxable services and nontaxable materials and supplies on each voucher. If subtotals are not specified on the vouchers, the Government will presume that the entire voucher amount is reportable and will be shown on the Form 1099-MISC generated by NASA and provided to the contractor and the Internal Revenue Service.

(c) DCAA Program for Contractor Direct Submission of Interim Vouchers to NASA Paying Offices:

(1) When authorized by the Defense Contract Audit Agency (DCAA), the contractor may submit interim vouchers directly to NASA paying offices. Such authorization does not extend to the first and final vouchers. The contractor will continue to submit first vouchers to the DCAA office identified below. Final vouchers will be submitted to the designated contracting officer with a copy to DCAA.

(2) Upon written notification to the contractor, DCAA may rescind the direct submission authority. Upon receipt of the written notice to rescind the direct submission authority, the contractor will immediately begin to submit public vouchers for the affected contracts to DCAA.

(3) Interim vouchers submitted under this program are considered to be provisionally approved for payment subject to final audit. In such cases, Copy 2, identified in paragraph (c)(3)(iii) below, need not be submitted.

(d) The Contractor shall prepare and distribute cost vouchers as follows:

(1) One original Standard Form (SF) 1034, SF 1035, or equivalent Contractor's attachment.

(2) Copies of SF 1034A, SF 1035A, or equivalent Contractor's attachment as required below.

(3) The Contractor shall mark SF 1034A copies 1, 2, 3, 4, and such other copies as may be directed by the Contracting Officer by insertion in the memorandum block the names and addresses as follows and distribute to the respective addressees:

(i) Original and three (3) copies:

Accounting Operations Branch
NASA Ames Research Center
M/S 203-18 Moffett Field, CA 94035-1000

Cost vouchers shall be submitted via the cognizant Government audit agency identified in paragraph (iii) below.

(ii) Copy 1 — NASA Contracting Officer, STAMPED "INFO COPY"

NASA Ames Research Center
ATTN: Wendy Takeguchi, M/S 241-1
Moffett Field, CA 94035-1000

(iii) Copy 2 — Auditor

Defense Contract Audit Agency
39510 Paseo Padre Pkwy Suite 210
Fremont, CA 94538

(iv) Copy 3 — Contractor

(v) Copy 4 — Contract Administration Office (if applicable),
STAMPED "INFO COPY"

(vi) Copy 5 — Project Management Office, STAMPED "INFO COPY"

(vii) Copy 6 — NASA Industrial Property Officer, M/S 255-2,
STAMPED "INFO COPY"

(For Contractor-Acquired Property and/or Centrally Reportable Equipment, if applicable — see paragraph (4) below)

(4) As authorized by FAR 52.216-7(a), the Contractor shall also include the following in its vouchers submitted for payment of costs incurred for any Contractor-Acquired Property or Centrally Reportable Equipment that has an acquisition cost exceeding \$1,000.00;

- (i) Date of Purchase
- (ii) Purchase Order Number
- (iii) Item Description
- (iv) Quantity
- (v) Purchase Price

"Centrally Reportable Equipment" is defined at NPR 4200.1, *NASA Equipment Management Manual, Appendix A* as "Plant equipment, special test equipment including components, special tooling, and nonflight space property, including ground support equipment that is (1) generally commercially available and used as a separate item or component of a system, and (2) is valued at \$1,000 or more, and (3) is identifiable by a manufacturer and model number."

(e) Public vouchers for payment of fee shall be prepared similarly and be forwarded to:

Accounting Operations Branch
NASA Ames Research Center
M/S 203-18

This is the designated billing office for fee vouchers for purposes of the Prompt Payment clause of this contract.

(f) In the event that amounts are withheld from payment in accordance with provisions of this contract, a separate voucher for the amount will be required before payment for that amount may be made.

G.4 TECHNICAL DIRECTION (NFS 1852.242-70) (SEP 1993)

(a) Performance of the work under this contract is subject to the written technical direction of the Contracting Officer Technical Representative (COTR), who shall be specifically appointed by the Contracting Officer in writing in accordance with NASA FAR Supplement 1842.270. "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 work or documentation items; shifts emphasis among work areas or tasks; or furnishes similar instruction to the Contractor. Technical direction includes requiring studies and pursuit of certain lines of inquiry regarding matters within the general tasks and requirements in Section C of this contract.

(b) The COTR does not have the authority to, and shall not, issue any instruction purporting to be technical direction that--

- (1) Constitutes an assignment of additional work outside the statement of work;
- (2) Constitutes a change as defined in the changes clause;
- (3) Constitutes a basis for any increase or decrease in the total estimated contract cost, the fixed fee (if any), or the time required for contract performance;
- (4) Changes any of the expressed terms, conditions, or specifications of the contract; or
- (5) Interferes with the Contractor's rights to perform the terms and conditions of the contract.

(c) All technical direction shall be issued in writing by the COTR.

(d) The Contractor shall proceed promptly with the performance of technical direction duly issued by the COTR in the manner prescribed by this clause and within the COTR's authority. If, in the Contractor's opinion, any instruction or direction by the COTR falls within any of the categories defined in paragraph (b) above, the Contractor shall not proceed but shall notify the Contracting Officer in writing within 5 working days after receiving it and shall request the Contracting Officer to take action as described in this clause. Upon receiving this notification, the Contracting Officer shall either issue an appropriate contract modification within a reasonable time or advise the Contractor in writing within 30 days that the instruction or direction is--

- (1) Rescinded in its entirety; or
- (2) Within the requirements of the contract and does not constitute a change under the changes clause of the contract, and that the Contractor should proceed promptly with its performance.

(e) A failure of the Contractor and Contracting Officer to agree that the instruction or direction is both within the requirements of the contract and does not constitute a change under the changes clause, or a failure to agree upon the contract action to be taken with respect to the instruction or direction, shall be subject to the Disputes clause of this contract.

(f) Any action(s) taken by the Contractor in response to any direction given by any person other than the Contracting Officer or the COTR shall be at the Contractor's risk.

(End of Clause)

G.5 INSTALLATION-ACCOUNTABLE GOVERNMENT PROPERTY (NFS 1852.245-71) (JUN 1998) (ALTERNATE I) (MAR 1989)

(a) The Government property described in the clause at 1852.245-77, "List of Installation-Accountable Property and Services," shall be made available to the Contractor on a no-charge basis for use in performance of this contract. This property shall be utilized only within the physical confines of the NASA installation that provided the property. Under this clause, the Government retains accountability for, and title to, the property, and the Contractor assumes the following user responsibilities:

The contractor shall establish and adhere to a system of written procedures for compliance with these user responsibilities. Such procedures must include holding employees liable, when appropriate, for loss, damage, or destruction of Government property.

- (b) (1) The official accountable record keeping, physical inventory, financial control, and reporting of the property subject to this clause shall be retained by the Government and accomplished by the installation Supply and Equipment Management Officer (SEMO) and Financial Management Officer. If this contract provides for the contractor to acquire property, title to which will vest in the Government, the following additional procedures apply:
- (i) The contractor's purchase order shall require the vendor to deliver the property to the installation central receiving area;
 - (ii) The contractor shall furnish a copy of each purchase order, prior to delivery by the vendor, to the installation central receiving area;
 - (iii) The contractor shall establish a record of the property as required by FAR 45.5 and 1845.5 and furnish to the Industrial Property Officer a DD Form 1149 Requisition and Invoice/Shipping Document (or installation equivalent) to transfer accountability to the Government within 5 working days after receipt of the property by the contractor. The contractor is accountable for all contractor-acquired property until the property is transferred to the Government's accountability.
 - (iv) Contractor use of Government property at an off-site location and off-site subcontractor use require advance approval of the contracting officer and notification of the SEMO. The contractor shall assume accountability and financial reporting responsibility for such property. The contractor shall establish records and property control procedures and maintain the property in accordance with the requirements of FAR Part 45.5 until its return to the installation.
- (2) After transfer of accountability to the Government, the contractor shall continue to maintain such internal records as are necessary to execute the user responsibilities identified in paragraph (a) and document the acquisition, billing, and disposition of the property. These records and supporting documentation shall be made available, upon request, to the SEMO and any other authorized representatives of the contracting officer.

(3) The contractor shall not utilize the installation's central receiving facility for receipt of Contractor-acquired property. However, the Contractor shall provide listings suitable for establishing accountable records of all such property received, on a quarterly basis, to the Contracting Officer and the Supply and Equipment Management Officer.

(End of clause)

G.6 LIST OF INSTALLATION-ACCOUNTABLE PROPERTY AND SERVICES (NFS 1852.245-77) (JUL 1997)

In accordance with the clause at 1852.245-71, Installation- Accountable Government Property, the Contractor is authorized use of the types of property and services listed below, to the extent they are available, in the performance of this contract within the physical borders of the installation which may include buildings and space owned or directly leased by NASA in close proximity to the installation, if so designated by the Contracting Officer.

- (a) Office space, work area space, and utilities. Government telephones are available for official purposes only; pay telephones are available for contractor employees for unofficial calls.
- (b) General and special-purpose equipment, including office furniture.
 - (1) Equipment to be made available is listed in Appendix 8.3 to SOR. The Government retains accountability for this property under the clause at 1852.245-71, Installation-Accountable Government Property, regardless of its authorized location.
 - (2) If the Contractor acquires property, title to which vests in the Government pursuant to other provisions of this contract, this property also shall become accountable to the Government upon its entry into Government records as required by the clause at 1852.245-71, Installation-Accountable Government Property.
 - (3) The Contractor shall not bring to the installation for use under this contract any property owned or leased by the Contractor, or other property that the Contractor is accountable for under any other Government contract, without the Contracting Officer's prior written approval.
- (c) Supplies from stores stock.
- (d) Publications and blank forms stocked by the installation.
- (f) Safety and fire protection for Contractor personnel and facilities.

- (g) Installation service facilities:
- 1) Motor Pool
 - 2) Fitness Center facilities under the following conditions:
 - i) Applications shall be submitted to, and shall be processed by the Fitness Center.
 - ii) The procedure for receiving and processing applications, obtaining a medical authorization from a licensed physician, and selection of applicants for participation will be similar to the procedure for Government employees.
 - iii) All individuals applying for participation shall sign a statement waiving the Government from any liability for personal injury during participation in Fitness Center activities.
- (h) Medical treatment of a first-aid nature for Contractor personnel injuries or illnesses sustained during on-site duty.
- (i) Cafeteria privileges for Contractor employees during normal operating hours.
- (j) Building maintenance for facilities occupied by Contractor personnel.
- (k) Moving and hauling for office moves, movement of large equipment, and delivery of supplies. Moving services shall be provided on-site, as approved by the Contracting Officer.
- (l) The user responsibilities of the Contractor are defined in paragraph (a) of the clause at 1852.245-71, Installation-Accountable Government Property.

(End of Clause)

[END OF SECTION]

SECTION H - SPECIAL CONTRACT REQUIREMENTS**H.1 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (FEB 1998)**

This contract incorporates one or more clauses 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. Also, the full text of a clause may be accessed electronically at these addresses:

<http://www.arnet.gov/far/>

<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE
52.223-5	AUG 2003	POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION

II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

CLAUSE NUMBER	DATE	TITLE
1852.216-80	OCT 1996	TASK ORDERING PROCEDURE; Insert <u>5</u> in paragraph (c); Insert <u>2</u> in paragraph (e).
1852.223-73	APR 2002	SAFETY AND HEALTH
1852.223-75	Feb 2002	MAJOR BREACH OF SAFETY ON SECURITY
1852.225-70	FEB 2000	EXPORT LICENSES

(End of Clause)

H.2 (LIMITED) RELEASE OF CONTRACTOR CONFIDENTIAL BUSINESS INFORMATION (CBI) (ARC 52.203-91) (JUN 2001)

(a) NASA may find it necessary to release information submitted by the Contractor, either in response to this solicitation or pursuant to the provisions of this contract, to individuals not employed by NASA. Business information that would ordinarily be entitled to confidential treatment may be included in the information released to these individuals. Accordingly, by submission of this proposal, or signature on this contract or other contracts, the Contractor hereby consents to a limited release of its confidential business information (CBI).

(b) Possible circumstances where the Agency may release the Contractor's CBI include, but are not limited to, the following:

(1) To other Agency contractors and subcontractors, and their employees tasked with assisting the Agency in handling and processing information and documents in the evaluation,

the award or the administration of Agency contracts, such as providing both preaward and post award audit support and specialized technical support to NASA's technical evaluation panels;

(2) To NASA contractors and subcontractors, and their employees engaged in information systems analysis, development, operation, and maintenance, including performing data processing and management functions for the Agency.

(c) NASA recognizes its obligation to protect the contractor from competitive harm that could result from the release of such information to a competitor. Except where otherwise provided by law, NASA will permit the limited release of CBI under subparagraphs (1) or (2) only pursuant to non-disclosure agreements signed by the assisting contractor or subcontractor, and their individual employees who may require access to the CBI to perform the assisting contract.

(d) NASA's responsibilities under the Freedom of Information Act are not affected by this clause.

(e) The Contractor agrees to include this clause, including this paragraph (e), in all subcontracts at all levels awarded pursuant to this contract that require the furnishing of confidential business information by the subcontractor.

(End of Clause)

H.3 SECURITY REGISTRATION AND IDENTIFICATION BADGES--ON-SITE CONTRACTORS, EXCLUDING CONSTRUCTION (ARC 52.204-91) (FEB 1997)

(a) All persons engaged in work at Ames Research Center are required to be registered and badged by Protective Services, and to follow all security regulations and requirements.

(b) The Contractor is responsible for assuring that each employee or company representative wears his/her issued identification badge at all times while they are within the boundaries of Moffett Field. Badges shall be worn above the waist in such a manner as to be clearly visible.

(c) (1) The Contractor shall ensure that all employees who are terminated or who are no longer connected with the work being performed under this contract are processed out through Protective Services. Badges, keys, and other Government property must be accounted for and returned. If a computer account has been established, the account must be deactivated.

(2) The Government shall notify the Contractor if any terminated employee has not been processed out through Protective Services. The Contractor then has 30 days in which to process the terminated employee without penalty. After 30 days, a Bill of Collection will be issued by the Government in the amount of \$500 for each terminated employee that has not been properly processed out.

(d) U.S. Citizens and Permanent Resident Aliens. On the first day of work, the employee will check in at the NASA Visitor Badging Office, Building 26. A temporary badge will be issued and the employee will be directed to the work site. As soon as practical, the employee must bring the completed "Non-Government Employee Security Badging Packet," NASA Form 531 and AOM Form 500, to the Employee Badging Office, Building 15. Employees will need to submit a completed packet for each badge issued, including renewals. Fingerprints will be taken if necessary and a permanent badge will be issued. All terminating employees must check out through the Employee Badging Office.

(e) Foreign Nationals (Passports, Visas, Non-Immigrant Aliens). A National Agency Check (NAC) is a prerequisite for a foreign national, making it necessary that all paperwork be submitted to JP:15-1:4-4651/Foreign National Processing at least 60 days in advance of the anticipated entry date (NAC processing can take as long as 180 days to process). JP/Foreign National Processing will provide guidance as to what paperwork and type of visa are required.

(f) Reserve Gate Procedure. In the event of a labor dispute the Government may restrict entrance and exit of the Contractor's employees and the Contractor's suppliers to a specified gate at Ames Research Center, pursuant to Chapter 4 of NASA Handbook 5200.1A, "Industrial Labor Relations Manual." The Contractor agrees to have all employees re-badged and to direct them and their suppliers to utilize only the designated gate.

(End of Clause)

H.4 RESTRICTIONS ON PRINTING AND DUPLICATING (NASA 1852.208-81) (OCT 2001)

(a) The Contractor may duplicate or copy any documentation required by this contract in accordance with the provisions of the Government Printing and Binding Regulations, No. 26, S. Pub 101-9, U.S. Government Printing Office, Washington, DC, 20402, published by the Joint Committee on Printing, U.S. Congress.

(b) The Contractor shall not perform, or procure from any commercial source, any printing in connection with the performance of work under this contract. The term "printing" includes the processes of composition, plate making, presswork, duplicating, silk screen processes, binding, microform, and the end items of such processes and equipment.

(c) The Contractor is authorized to duplicate or copy production units provided the requirement does not exceed 5,000 production units of any one page or 25,000 units in the aggregate of multiple pages. Such pages may not exceed a maximum image size of 10-3/4 by 14-1/4 inches. A "production unit" is one sheet, size 8-1/2 x 11 inches (215 x 280 mm), one side only, and one color ink.

(d) This clause does not preclude writing, editing, preparation of manuscript copy, or preparation of related illustrative material as a part of this contract, or administrative duplicating/copying (for example, necessary forms and instructional materials used by the Contractor to respond to the terms of the contract).

(e) Costs associated with printing, duplicating, or copying in excess of the limits in paragraph (c) of this clause are unallowable without prior written approval of the Contracting Officer. If the Contractor has reason to believe that any activity required in fulfillment of the contract will necessitate any printing or substantial duplicating or copying, it immediately shall provide written notice to the Contracting Officer and request approval prior to proceeding with the activity. Requests will be processed by the Contracting Officer in accordance with the provisions of the Government Printing and Binding Regulations, NFS 1808.802, and NPG 1490.5, NASA Procedures and Guidelines for Printing, Duplicating, and Copying Management.

(f) The Contractor shall include in each subcontract which may involve a requirement for any printing, duplicating, and copying in excess of the limits specified in paragraph (c) of this clause, a provision substantially the same as this clause, including this paragraph (f).

(End of clause)

H.5 ORGANIZATIONAL CONFLICTS OF INTEREST (ARC 52.209-94) (MAR 1998)

(a) The Contracting Officer has concluded that this acquisition may give rise to a potential organizational conflict of interest. Accordingly, the attention of the Contractor is directed to FAR Subpart 9.5, "Organizational and Consultant Conflicts of Interest."

(b) The nature of the potential organizational conflict of interest in this acquisition is described below:

In conducting its investigations of possible contamination, the Contractor may have to make judgments regarding the liability of the various Potentially Responsible Parties. This subjective judgment could be adversely affected, or have the appearance of bias, if the Contractor provides services to more than one PRP.

(c) To avoid, neutralize, or mitigate the potential organizational conflict of interest, the Contractor shall not, during the performance of the contract and for a period of three years following completion of performance thereof, engage in the following activities: remedial investigations, risk assessments, or feasibility studies for the Navy at Moffett Field or any of the Potentially Responsible Parties (PRPs) to the Middlefield-Ellis-Whisman (MEW) Superfund sites, except to the extent required in the performance of this contract according to its terms.

The Contracting Officer may specifically approve an exception to this prohibition.

(d) (1) If, in the performance of work under this contract, the Contractor has access to proprietary data of other companies, the Contractor shall protect such data from unauthorized use or disclosure so long as it remains proprietary. In addition, the Contractor shall not be permitted to use such data in performing any other contract for any additional study or studies in the same or a closely related field, without the explicit written permission of the owner of such data.

(2) If, in the performance of work under this contract, the Contractor enters into a separate agreement with a company for the protection of proprietary data, the Contractor shall furnish a copy of that agreement to the Contracting Officer.

(3) The Contractor must educate its employees, through formal training, not to divulge the proprietary data, trade secrets, confidential information, or restricted data of companies received in connection with the performance of work under this contract. The Contractor shall provide a plan to implement this training for the approval of the Contracting Officer.

(4) The Contractor shall obtain from all employees having access to proprietary data under this contract a written agreement which shall prohibit those employees, during the term of their employment and thereafter, from disclosing to others or using for their own behalf, the proprietary data, trade secrets, confidential information, or restricted data received in connection with the performance of work under this contract.

(e) The term "Contractor" as used in this clause shall include (i) the corporate or other entity executing this contract with the Government; (ii) such entity's parent, subsidiary, affiliate, or successor entities to the extent that the parent, subsidiary, affiliate, or successor entity has responsibility for the performance of work under this contract; and (iii) the Contractor's subcontractors.

(f) The term "contract" as used in this clause shall include options, extensions, and any successor contracts performed or to be performed by the Contractor without any other contractor intervening.

(g) The Contractor shall include paragraphs (a) through (f) of this clause in every subcontract.

(End of Clause)

H.6 EMERGENCY PREPAREDNESS AND RESPONSE (APR 2004)

In the event of an emergency that requires a Level 1, 2, or 3 response, as defined in Paragraph 106, "Levels of Response," in the Ames Handbook and Emergency Preparedness Plan (AHB 1601.4), the contractor shall follow the emergency procedures (e.g., shut down equipment, conduct damage assessments, etc.) shown in Paragraph 202, "Responsibilities," of the Handbook. Responsibilities are assigned on an organizational basis; therefore, Contractors must refer to the section(s) of the Handbook that correlate with their respective COTR organization(s).

(End of Clause)

H.7 DISASTER ASSISTANCE AND RESCUE TEAM (DART) PARTICIPATION (ARC 52.223-91) (APR 2004)

a. Contractor employees are eligible to participate in the Disaster Assistance and Rescue Team (DART) if approved in writing by the Contractor and appointed by the Government. If a Contractor approves of an employee's participation, the contractor agrees to modify the employee's position description to include participation in DART, and to provide additional indemnification (e.g., worker's compensation insurance, general liability, etc.) as may be necessary to protect its employee and/or the Government while the employee is participating in the program.

b. DART Definition. This team is comprised of civil service, contractor, Ames Associate, resident agent, and military personnel that work at Ames Research Center, the NASA Research Park, and Moffett Federal Airfield. The team composition includes, but is not limited to, scientists, engineers, wind tunnel mechanics, aircraft mechanics, facility maintenance personnel, computer specialists, industrial hygienists, safety professionals, heavy equipment operators, administrative personnel, managers, procurement officials, and data specialists. DART is an umbrella organization that has ten functional groups. The groups are Search, Rescue, Hazardous Materials Response, Damage and Utility Control, Structural Assessment, Emergency Communications, Medical, Logistics, Technical Support, and Emergency Operations Center as well as the Emergency Communications Facility. Typically, participation will involve approximately 5% of the employee's (full) time, except for initial training/orientation, which will involve approximately 10% of the employee's (full) time. The executive management at Ames Research Center strongly encourages contractor participation on DART, which needs all of our support, as it has proven to be a valuable element of the Center's Emergency Service Program.

(End of Clause)

H.8 MANAGEMENT AND PROTECTION OF DATA (ARC 52.227-93) (JUL 1988)

(a) In the performance of this contract it is anticipated that the Contractor may have access to, be furnished, use, or generate the following types of data (recorded information):

- (1) Data submitted to the Government with limited rights or restricted rights notices;
- (2) Data of third parties which the Government has agreed to handle under protective arrangements; and
- (3) Data generated by or on behalf of the Government which the Government intends to control the use and dissemination thereof.

(b) In order to provide management appropriate for protecting the interests of the Government and other owners of such data, the Contractor agrees with respect to data in category (a)(1) above, and with respect to any data in categories (a)(2) and (a)(3) when so identified by the Contracting Officer, to:

- (1) Use and disclose such data only to the extent necessary to perform the work required under this contract, with particular emphasis on restricting disclosure of the data to those persons who have a definite need for the data in order to perform under this contract;
- (2) Not reproduce the data unless reproduction of the data is specifically permitted elsewhere in the contract or by the Contracting Officer;
- (3) Refrain from disclosing the data to third parties without the written consent of the Contracting Officer; and
- (4) Return or deliver the data including all copies thereof to the Contracting Officer or his designated recipient when requested by the Contracting Officer.

(End of Clause)

H.9 HANDLING OF DATA (ARC 52.227-96) (JUN 1989)

(a) Paragraph (d)(1) of the "Rights in Data--General" clause of this contract permits the Government to restrict the Contractor's right to use, release to others, reproduce, distribute, or publish any data first produced or specifically used by the Contractor in the performance of the contract provided such restriction is expressly set forth in the contract. Pursuant to this authority, the following restrictions shall apply to such data and shall be included, in substance, in all subcontracts:

(b) Data specifically used.

(1) In the performance of this contract, it is anticipated the Contractor may have access, or be furnished, data (including financial, administrative, cost or pricing, or management information as well as technical data or computer software) of third parties which the Government has agreed to handle under protective arrangements, as well as such Government data for which the Government intends to control the use and dissemination.

(2) In order to protect the interests of the Government and the owners of such data, the Contractor agrees, with respect to such third party or Government data that is either marked with a restrictive legend or specifically identified in this contract or in writing by the Contracting Officer as being subject to this clause, to use and disclose such data only to the extent necessary to perform the work required under this contract, preclude disclosure of such data outside the Contractor's organization, and return or dispose of such data as directed by the Contracting Officer when the data is no longer needed for contract performance.

(3) Notwithstanding (2) above, the Contractor shall not be restricted in the use and disclosure of any data that becomes generally available without breach of this clause by this Contractor, is known to or is developed by the Contractor independently of any disclosure of proprietary, restricted, or confidential data hereunder, or is rightfully received by the Contractor from a third party without restriction.

(c) Data first produced.

Data first produced by the Contractor under this contract may include data for which the Government wants to control the use and dissemination. The Contracting Officer may require, or this contract may presently specify, that the Contractor apply restrictive legends to such identified data prior to delivery to the Government, or to third parties at the Government's direction, that restrict the use and disclosure of the data by any third party recipient. However, such restrictive legends shall in no way affect the Contractor's or the Government's rights to such data as provided in the "Rights in Data-- General" clause of this contract.

(End of Clause)

H.10 SEVERANCE PAY (ARC 52.231-90) (MAY 1993)

In conjunction with FAR 31.205-6(g), the severance pay cost shall not exceed 40 hours pay for each year of employment per employee up to a maximum of 80 hours per eligible employee. Severance cost eligibility computation for reimbursement shall also be limited to only the period of employment on the service contract at Ames Research Center. In no event shall the Government reimburse the Contractor for severance cost for employees who voluntarily accept employment in place with the succeeding contractor within ninety (90) days after completion of the current contract.

(End of Clause)

H.11 KEY PERSONNEL AND FACILITIES (NASA 1852.235-71) (MAR 1989)

(a) The personnel and/or facilities listed below (or specified in the contract Schedule) are considered essential to the work being performed under this contract. Before removing, replacing, or diverting any of the listed or specified personnel or facilities, the Contractor shall (1) notify the Contracting Officer reasonably in advance and (2) submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on this contract.

(b) The Contractor shall make no diversion without the Contracting Officer's written consent; provided, that the Contracting Officer may ratify in writing the proposed change, and that ratification shall constitute the Contracting Officer's consent required by this clause.

(c) The list of personnel and/or facilities (shown below or as specified in the contract Schedule) may, with the consent of the contracting parties, be amended from time to time during the course of the contract to add or delete personnel and/or facilities.

B-6 B-4

(End Of Clause)

H.12 CONTRACTOR MONTHLY ACCIDENT REPORTING

In accordance with the Safety and Health Clause - NFS 18.52.223-70, and the Ames Health and Safety Manual - APG 1700.1, the Contractor shall report accident and lost time injuries. Ames Research Center (ARC) collects this data in the Contractor Monthly Accident Reporting (CMAR) web-based system, through the submission of a monthly ARC 15 CMAR form which is located at <http://cmar.arc.nasa.gov/>. The CMAR system will assist the user via built in hyperlinks, to log into the system, complete the ARC 15 Form and other administrative activities.

The contractor shall ensure that accurate and complete data entry of the ARC 15 information is input monthly to the CMAR web-based system for its firm as well as all applicable subcontractors no later than the 10th day of the subsequent month. The contractor shall be responsible for input into the CMAR system of all changes (additions and/or deletions) for its applicable subcontractors.

(END OF CLAUSE)

H.13 NON-PERSONAL SERVICES

(a) No personal services shall be performed under this contract as defined by FAR 37.104. No Contractor employee will be directly supervised by a Government employee. All individual contractor employee assignments, and daily work direction, shall be given by the applicable employee supervisor. If the Contractor believes any Government action or communication has been given that would create a personal services relationship between the Government and any Contractor employee, the Contractor shall promptly notify the Contracting Officer of this communication or action.

(b) The Contractor shall not perform any inherently governmental actions as defined by FAR 7.500. No Contractor employee shall hold him or herself out to be a Government employee, agent, or representative. No Contractor employee shall state orally or in writing at any time that he or she is acting on behalf of the Government. In all communications with third parties in connection with this contract, Contractor employees shall identify themselves as Contractor employees and specify the name of the company for which they work. In all communications with other Government contractors in connection with this contract, the Contractor employee shall state that they have no authority to in any way change the contract and that if the other contractor believes this communication to be a direction to change their contract, they should notify the Contracting Officer for that contract and not carry out the direction until a clarification has been issued by the Contracting Officer.

(c) The Contractor shall insure that all of its employees working on this contract are informed of the substance of this clause. Nothing in this clause shall limit the Government's rights in any way under any other provision of the contract, including those related to the Government's right to inspect and accept the services to be performed under this contract. The substance of this clause shall be included in all subcontracts at any tier.

End of Clause

[END OF SECTION]

PART II - CONTRACT CLAUSES**SECTION I - CONTRACT CLAUSES****I.1 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (FEB 1998)**

This contract incorporates one or more clauses 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. Also, the full text of a clause may be accessed electronically at these addresses:

<http://www.arnet.gov/far/>

<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE
52.202-1	JUL 2004	DEFINITIONS
52.203-3	APR 1984	GRATUITIES
52.203-5	APR 1984	COVENANT AGAINST CONTINGENT FEES
52.203-6	JUL 1995	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT
52.203-7	JUL 1995	ANTI-KICKBACK PROCEDURES
52.203-8	JAN 1997	CANCELLATION, RESCISSION AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY
52.203-10	JAN 1997	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY
52.203-12	JUN 2003	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS
52.204-4	AUG 2000	PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER
52.204-7	OCT 2003	CENTRAL CONTRACTOR REGISTRATION
52.209-6	JUL 1995	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT
52.211-15	SEP 1990	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS
52.215-2	JUN 1999	AUDIT AND RECORDS--NEGOTIATION
52.215-8	OCT 1997	ORDER OF PRECEDENCE - UNIFORM CONTRACT FORMAT
52.215-11	OCT 1997	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA-- MODIFICATIONS
52.215-13	OCT 1997	SUBCONTRACTOR COST OR PRICING DATA - MODIFICATIONS

52.215-14	OCT 1997	INTEGRITY OF UNIT PRICES
52.215-15	JAN 2004	PENSION ADJUSTMENTS AND ASSET REVISIONS
52.215-18	OCT 1997	REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS
52.215-19	OCT 1997	NOTIFICATION OF OWNERSHIP CHANGES
52.215-21	OCT 1997	REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA- MODIFICATIONS
52.216-7	DEC 2002	ALLOWABLE COST AND PAYMENT Insert "30 days" in Paragraph (a)(3)
52.217-8	NOV 1999	OPTION TO EXTEND SERVICES Insert "60 days"
52.217-9	MAR 2000	OPTION TO EXTEND THE TERM OF THE CONTRACT Insert "30 days" and "30 days," respectively, in paragraph (a). Insert "5 years" in paragraph (c).
52.219-8	MAY 2004	UTILIZATION OF SMALL BUSINESS CONCERNS
52.219-9	JAN 2002	SMALL BUSINESS SUBCONTRACTING PLAN (ALTERNATE II) (OCT 2001)
52.219-16	JAN 1999	LIQUIDATED DAMAGES SUBCONTRACTING PLAN
52.219-23	JUNE 2003	NOTICE OF PRICE EVALUATION ADJUSTMENT FOR SMALL BUSINESS CONCERNS
52.219-25	OCT 1999	SMALL DISADVANTAGE BUSINESS PARTICIPATION PROGRAM-DISADVANTAGED STATUS & REPORTING
52.222-1	FEB 1997	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES
52.222-2	JUL 1990	PAYMENT FOR OVERTIME PREMIUMS Insert "\$0" in paragraph (a).
52.222-3	JUN 2003	CONVICT LABOR
52.222-4	SEP 2000	CONTRACT WORK HOURS AND SAFETY STANDARDS ACT - OVERTIME COMPENSATION
52.222-21	FEB 1999	PROHIBITION OF SEGREGATED FACILITIES
52.222-26	APR 2002	EQUAL OPPORTUNITY
52.222-35	DEC 2001	EQUAL OPPORTUNITY FOR SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS
52.222-36	JUN 1998	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES
52.222-37	DEC 2001	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS
52.223-3	JAN 1997	HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (ALTERNATE I) (JUL 1995) Insert None" in paragraph (b).
52.223-5	AUG 2003	POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION
52.223-6	MAY 2001	DRUG-FREE WORKPLACE
52.223-9	AUG 2000	ESTIMATE OF PERCENTAGE OF RECOVERED MATERIAL CONTENT FOR EPA-DESIGNATED PRODUCTS
52.223-10	AUG 2000	WASTE REDUCTION PROGRAM
52.223-12	MAY 1995	REFRIGERATION EQUIPMENT AND AIR CONDITIONERS
52.223-14	AUG 2003	TOXIC CHEMICAL RELEASE REPORTING

52.225-13	DEC 2003	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES
52.226-1	JUN 2000	UTILIZATION OF INDIAN ORGANIZATIONS AND INDIAN-OWNED ECONOMIC ENTERPRISES
52.227-1	JUL 1995	AUTHORIZATION AND CONSENT
52.227-2	AUG 1996	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT
52.227-3	APR 1984	PATENT INDEMNITY
52.227-11	JUN 1997	PATENT RIGHTS-RETENTION BY THE CONTRACTOR (Short Form)
52.227-14	JUN 1987	RIGHTS IN DATA--GENERAL ALTERNATE II (JUN 1987) ALTERNATE III (JUN 1987) AS MODIFIED BY 1852.227-14 NASA FAR SUPPLEMENT (OCT 1995)
52.227-16	JUN 1987	ADDITIONAL DATA REQUIREMENTS
52.227-17	JUN 1987	RIGHTS IN DATA-SPECIAL WORKS
52.227-19	JUN 1987	COMMERCIAL COMPUTER SOFTWARE - RESTRICTED RIGHTS
52.227-23	JUN 1987	RIGHTS TO PROPOSAL DATA (TECHNICAL) Insert "...on pages _____, ... proposal dated _____ upon which ..."
52.228-7	MAR 1996	INSURANCE LIABILITY TO THIRD PERSONS(1996)
52.230-2	APR 1998	COST ACCOUNTING STANDARDS
52.230-6	NOV 1999	ADMINISTRATION OF COST ACCOUNTING STANDARDS
52.232-17	JUN 1996	INTEREST
52.232-18	APR 1984	AVAILABILITY OF FUNDS
52.232-20	APR 1984	LIMITATION OF COST
52.232-22	APR 1984	LIMITATION OF FUNDS
52.232-23	JAN 1986	ASSIGNMENT OF CLAIMS
52.232-25	OCT 2003	PROMPT PAYMENT (ALTERNATE I) (FEB 2002)
52.232-34	MAY 1999	PAYMENT BY ELECTRONIC FUNDS TRANSFER--OTHER THAN CENTRAL CONTRACTOR REGISTRATION (Insert "the date specified for receipt of offers" in Paragraph (b)(1))
52.233-1	JUL 2002	DISPUTES (ALTERNATE I) (DEC 1991)
52.233-3	AUG 1996	PROTEST AFTER AWARD (ALTERNATE I) (JUN 1985)
52.237-2	APR 1984	PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT, AND VEGETATION
52.237-3	JAN 1991	CONTINUITY OF SERVICES
52.242-1	APR 1984	NOTICE OF INTENT TO DISALLOW COSTS
52.242-3	MAY 2001	PENALTIES FOR UNALLOWABLE COSTS
52.242-4	JAN 1997	CERTIFICATION OF FINAL INDIRECT COSTS
52.242-13	JUL 1995	BANKRUPTCY
52.243-2	AUG 1987	CHANGES--COST-REIMBURSEMENT (ALTERNATE II) (APR 1984)
52.244-2	AUG 1998	SUBCONTRACTS (ALTERNATE I) (AUG 1998)
52.244-5	DEC 1996	COMPETITION IN SUBCONTRACTING
52.244-6	JUL 2004	SUBCONTRACTS FOR COMMERCIAL ITEMS
52.245-1	APR 1984	PROPERTY RECORDS
52.245-5	MAY 2004	GOVERNMENT PROPERTY (COST- REIMBURSEMENT, TIME-AND- MATERIAL, OR LABOR-HOUR CONTRACTS)
52.246-25	MAY 1997	LIMITATION OF LIABILITY-- SERVICES
52.248-1	FEB 2000	VALUE ENGINEERING

52.249-6	MAY 2004	TERMINATION (COST-REIMBURSEMENT)
52.249-14	APR 1984	EXCUSABLE DELAYS
52.251-1	APR 1984	GOVERNMENT SUPPLY SOURCES
52.253-1	JAN 1991	COMPUTER GENERATED FORMS

II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

CLAUSE NUMBER	DATE	TITLE
1852.204-76	JUL 2002	SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION TECHNOLOGY RESUORCES <i>Insert</i> "within 30 days" in paragraph (c)
1852.216-89	JUL 1997	ASSIGNMENT AND RELEASE FORMS
1852.219-74	SEP 1990	USE OF RURAL AREA SMALL BUSINESSES
1852.219-75	May 1999	SMALL BUSINESS SUBCONTRACTING REPORTING
1852.219-76	JUL 1997	NASA 8 PERCENT GOAL
1852.223-74	MAR 1996	DRUG- AND ALCOHOL-FREE WORKFORCE
1852.227-14	OCT 1995	RIGHTS IN DATA - GENERAL
1852.227-17	OCT 1995	RIGHTS IN DATA - SPECIAL WORKS
1852.227-70	NOV 1998	NEW TECHNOLOGY
1852.227-72	JUL 1997	DESIGNATION OF NEW TECHNOLOGY REPRESENTATIVE AND PATENT REPRESENTATIVE
1852.227-84	DEC 1989	PATENT RIGHTS CLAUSES
1852.227-86	DEC 1987	COMMERCIAL COMPUTER SOFTWARE—LICENSING
1852.228-75	OCT 1988	MINIMUM INSURANCE COVERAGE
1852.237-70	DEC 1988	EMERGENCY EVACUATION PROCEDURES
1852.242-72	AUG 1992	OBSERVANCE OF LEGAL HOLIDAYS (ALTERNATE I) (SEP 1989) (ALTERNATE II) (OCT 2000)
1852.243-71	MAR 1997	SHARED SAVINGS

(End Of Clause)

I.2 OMBUDSMAN (NFS 1852.215-84) (OCT 2003)

(a) An ombudsman has been appointed to hear and facilitate the resolution of concerns from offerors, potential offerors, and contractors during the preaward and postaward phases of this acquisition. When requested, the ombudsman will maintain strict confidentiality as to the source of the concern. The existence of the ombudsman is not to diminish the authority of the contracting officer, the Source Evaluation Board, or the selection official. Further, the ombudsman does not participate in the evaluation of proposals, the source selection process, or the adjudication of formal contract disputes. Therefore, before consulting with an ombudsman, interested parties must first address their concerns, issues, disagreements, and/or recommendations to the contracting officer for resolution.

(b) If resolution cannot be made by the contracting officer, interested parties may contact the installation ombudsman:

NASA Ames Research Center
Lewis Braxton III

Director of Center Operations; M/S 200-8
Moffett Field., CA 94035-1000
Telephone: (650) 604-5068
FAX: (650) 604-1668
Email: Lewis.S.Braxton@nasa.gov

Concerns, issues, disagreements, and recommendations which cannot be resolved at the installation may be referred to the NASA ombudsman, the Director of the Contract Management Division, at 202-358-0445, facsimile 202-358-3083, e-mail James.A.Balinskas@nasa.gov. Please do not contact the ombudsman to request copies of the solicitation, verify offer due date, or clarify technical requirements. Such inquiries shall be directed to the contracting officer or as specified elsewhere in this document.

(End of clause)

[END OF SECTION]

PART III – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

SECTION J – LIST OF ATTACHMENTS

J.1 ARC 52.211-90 LIST OF DOCUMENTS, EXHIBITS, AND ATTACHMENTS (JAN 1998)

(a) The following documents, exhibits, and attachments are included in the solicitation and resulting contract. Representations and certifications completed by the contractor in responses to this solicitation are incorporated by reference in the resulting contract at time of award.

<u>Attachment No./Title</u>	<u>Pages</u>
1 Statement of Requirements	38
2. iSRS Instructions	2
3. Safety & Health Plan*	TBD
4. IT Security Plan*	TBD
5. Subcontracting Plan*	TBD

* To be completed at time of award or by subsequent contract modification

(b) The following documents, exhibits, and attachments are included only in the solicitation:

<u>Attachment No.</u>	<u>Title</u>
1	Exhibit 1, Proposal Cover Sheet, JA 038
2	Exhibit 2, Summary of Cost and Fee
2.a	Exhibit 2A, Summary of Cost and Fee (Prime and major subcontractors costs broken out)
2.b	Exhibit 3, Summary of Cost Elements (Total Program)
2.c	Exhibit 4, Summary of Rates
2.d	Exhibit 5, Summary of Key Personnel Labor Rates
2.e	Exhibit 6, Proposed Staffing Requirements
2.f	Schedule A, Direct Labor Cost by Contract Year
2.g	Schedule B, Overhea

	Expense Schedule
2.h	Schedule C, General and Administrative Expense Schedule
2.i	Schedule D, Schedule of Subcontracts
3	Facility Capital Cost of Money Computation (Form CASB-CMF)
4	Contract Facilities Capital Cost of Money (DD Form 1861 and instructions)
5	Quarterly Contractor Financial Management Report (NF 533Q) & Instructions
6	Monthly Contractor Financial Management Report (NF 533M) & Instructions
7	Subcontracting Report for Individual Contracts (SF 294) & Instructions
8	Summary Subcontract Report (SF 295)
9	NASA Initial Safety Incident Report (NF 1627A)
10	Industrial Plant Equipment Requisition System (DD1419)
11	Past Performance Questionnaire
12	Relevant Past Performance Chart
13	Sample Past Performance Questionnaire Cover Letter
14	Request for New/Change ZREM Vendor Master Record
15	Request for New/Change Procurement KRED Vendor Master Record
16	ACH Vendor/Miscellaneous Payment Enrollment Form (SF 3881)

(End of Clause)

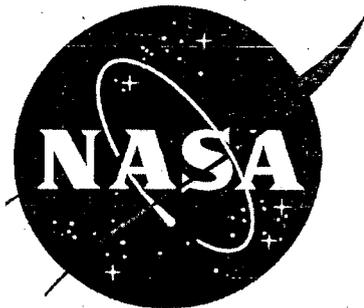
[END OF SECTION]

Statement of Requirements NNA05AC42C

July 16, 2004

(Includes changes to SOR by amendments 1, 2 & 3)

Environmental Services





Statement of Requirements

Environmental Services

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1 Introduction

1.1 Purpose

The purpose of this requirement is to provide for Environmental Services for NASA Ames Research Center.

1.1.1 Environmental Services

Services for the Environmental Services Office is required in the following areas:

- Environmental Compliance and Hazardous Waste Management
- Pollution Prevention and Sustainability
- Wildlife and Habitat Conservation and NEPA Compliance
- Site Investigation and Restoration
- Environmental Management Systems

1.1.2 Collaborative Elements

The following elements are common to the Occupational Safety, Industrial Hygiene, and Medical program and the Environmental Services program:

- Emergency Response (hazardous material releases)
- Training Services
- Computer Support Services
- The performance of these elements must be coordinated with the Ames Office of Safety, Health and Medical Services Division.

1.2 Ames Mission & Activities

Ames specializes in scientific research, exploration, and applications aimed toward exploring space and creating technology for the nation. The Center's major program responsibilities are concentrated in:

- Astrobiology and nanotechnology
- Computer science and application
- Computational and experimental aerodynamics
- Flight simulation & research
- Aeronautical and space human factors
- Life sciences
- Space sciences; and
- Airborne science and applications

Ames also supports military programs, the Space Shuttle, and various aviation projects. Equipment used in this research includes aircraft and spacecraft, wind tunnels, flight simulators, and entry heating simulators. Principal operations include:

- Aerospace/aeronautics projects development, design, construction, operations, and maintenance

- Life science experiments
- Space science experiments, and
- Airborne science platform aircraft missions.

1.3 Personnel & Facilities

The various Ames organizations that could be supported by this requirement are listed in Ames organization chart (see Section 8.1).

There are approximately 4,500 on-site personnel. These personnel operate in government facilities that include:

- Offices
- Airport/hangars
- Research laboratories
- Aerospace/aeronautics facilities (e.g., Wind tunnels, arc jets, simulators, etc.)
- Computer laboratories
- Ballistic ranges
- General testing facilities
- Machine shops
- Metal shops
- Model shops
- Motor pools
- Test chambers; and
- Storage facilities.

1.4 NASA Ames Research Center Description

Ames Research Center, encompassing approximately 2000 acres, is located in the heart of "Silicon Valley" California, near the southern end of San Francisco Bay. The Center consists of two distinct areas: the original NASA Ames Research Center and the former Naval Air Station, Moffett Field, which have been combined, except for the military housing (see map in Section 7.2). Previously, the US Navy operated Naval Air Station, Moffett Field. In July 1994, NASA assumed control of the facility and now hosts numerous "Resident Partners". These partners are governmental, academic, and commercial entities.

Ames Research Center operates within a very aggressive regulatory framework. The Contractor shall be sensitive to the uniqueness of this setting and the multiple jurisdictions at work within a given functional area (for example, redundancy and inconsistency in requirements present in Federal, State and County regulations).

Environmental History:

Pursuant to a signed Memorandum of Understanding (MOU) with NASA, the Navy retains all responsibility for soil and groundwater contamination that was present at Naval Air Station, Moffett Field as of July 1994. Furthermore, the majority of groundwater contamination present at the site is due to migration from a neighboring Superfund site, and remains the responsibility of the Navy and neighboring private corporations. NASA is actively addressing its soil and groundwater contamination on its historical portion of the facility, now known as the Ames Campus and Bay View areas.

1.5 Scope Of Requirements

1.5.1 Statement Of Requirements

This Statement of Requirements (SOR) describes the functions to be performed by the Contractor in support of the Center's Environmental Services programs. The Contractor shall be responsible for all functions described in this SOR. The Government shall provide facilities and equipment as stated in Section 7.3, except as otherwise noted in the SOR. Contractor staff shall reside on-site in facilities provided by NASA, described in Section H of the Contract Schedule, except as specifically authorized by NASA. The overwhelming majority of the work shall be performed on-site at Ames Research Center, Moffett Field, California. However, this SOR covers a broad place of performance, including all NASA facilities and other locations as specified by the government. For example, Ames' Crows Landing Flight Facility, located in Stanislaus County, CA is a common work site.

1.5.2 Technical Direction

The overall technical direction of the Environmental Services contract is the responsibility of the Ames Safety, Environmental and Mission Assurance Directorate (SEMA), which includes the Environmental Services Office. SEMA will nominate a Contracting Officer's Technical Representative (COTR) to assist the Contracting Officer (CO) in administering this requirement.

1.5.3 Risk Management & Risk Acceptance

Final management decisions for all of the functional areas will normally be the responsibility of the Government in situations involving Center-wide policies, procedures and major events that have significant impact to the environment. The contractor shall provide services in a variety of ways to constructively help manage or eliminate risk. On a daily basis, the contractor is expected to manage and execute typical risk management decisions commensurate with the technical level of expertise of their personnel. For example, a Certified Hazardous Materials Manager is expected to be capable of making risk management decisions on behalf of the government for matters involving routine hazardous materials management. However, if the technical expert becomes involved in risk management issues that are beyond their scope of expertise and/or involve significant impact to Center operations, the contractor should request the government to lead the risk management process. Contractors may also be requested to help the government in risk management decisions through the gathering of technical information, program management, and subcontract management as needed.

1.5.4 Required Knowledge

The Contractor shall have, and maintain current working knowledge of all relevant and applicable environmental regulations. The Contractor shall develop and implement a program to ensure timely and accurate dissemination of this information to the user community at NASA facilities (i.e., email notifications, updates of manuals, web pages, briefings, technical bulletins, etc.).

1.5.5 Work Authorization

All work shall be authorized using Contract Task Orders (CTOs). The CTOs will describe the basic terms of the work to be performed and the required completion date. CTOs will be issued to the Contractor using the following methods as appropriate.

1.5.5.1 Method 1: Basic Services

At the start of the contract and as required thereafter, the government will provide incremental funding for services provided in accordance with SOR Sections 2, 3, and 4.

1.5.5.2 Method 2: Additional Requirements

Services requiring additional resources will be processed through issuance of a separate CTO on an as needed basis. This will occur when additional services and/or resources are needed above the baseline services. These services have included, for example, preparation of Human Health Risk Assessments, hazardous waste disposal for Resident Partners, technical studies, and site investigations.

1.5.6 Responsibilities At Ames Research Center

All services that are provided to Ames as described below are to be provided primarily for NASA employees and NASA Contractors working on the Center. Resident Partners are included in site-wide plans, reports, and permits. Resident Partners normally provide their own site-specific hazardous materials storage permits and air permits, and some hazardous materials emergency response personnel. However, the Resident Partners may request these services on a cost reimbursement basis (See Section 1.5.5.2). See Section 2.0 for a description of those environmental services provided as a baseline, those provided as additional requirements, and those services provided by the Resident Partners.

2 Functions to be Performed: Environmental Services

Implementation of the environmental program shall be performed primarily at ARC. Contractors providing the subject services are expected to work in concert with both civil service and other Ames contract professionals. Effective communication and civil service/contractor teaming (inter- and intra-discipline) are required to ensure efficient operation of programs. Functional programs included in that effort are:

- Environmental Compliance & Hazardous Waste Management
- Pollution Prevention and Sustainability
- Wildlife and Habitat Conservation and NEPA Compliance
- Site Investigation and Restoration
- Environmental Management Systems

Specifically, the following programmatic areas are covered:

- Air Pollution Control
- Water Pollution Control
- Hazardous Waste Management
- Hazardous Materials Management
- Toxic Gas Management
- Comprehensive Environmental Response, Compensation, and Liability Act/Superfund Reauthorization Amendments
- Groundwater Protection
- Spill Control and Response
- Storage Tank Management
- National Environmental Policy Act
- Cultural and Historic Resources
- Wetlands Management
- Endangered Species Act
- Emergency Planning and Community Right-to-Know Act

- Environmental Justice
- Drinking Water
- Polychlorinated Biphenyls
- Hazardous Waste Minimization
- Hazardous Materials Use Reduction
- Pollution Prevention
- Sustainability
- Recycling
- Affirmative Procurement
- Environmental Management Systems
- Environmental Compliance Assessments

Ames Research Center objectives for this effort are to:

- Ensure environmental impacts are thoroughly assessed, documented, and mitigated to the extent practicable
- Ensure operations are carried out in compliance with Federal, State, and local regulations and NASA policies
- Prevent pollution and implement sustainable practices
- Remediate contaminated soil and groundwater; and
- Manage wildlife and habitat resources in an integrated manner

The Environmental Services Office values concern for the environment, flexibility, effective written and verbal communication, accountability, critical thinking, understanding of database systems, and responsiveness, in addition to technical expertise.

2.1 Environmental Compliance

2.1.1 Contractor Responsibilities

The Contractor shall:

- Manage the industrial waste water discharge permit program, the Spill Prevention, Control and Countermeasure (SPCC) plan, the industrial storm water discharge permit and any other site-wide and/or NASA Ames related environmental requirements. All site-wide services that are provided to ARC as described below are also to be provided to all Resident Partners working on the Center. Location specific environmental compliance requirements for Resident Partners (e.g., air permits and hazardous materials storage permits) are the responsibility of those agencies, not NASA. However, Resident Partners may request these services on a cost reimbursable basis. The Contractor shall provide these professional services on an as needed basis, as directed by CTOs. Provision of oversight to ensure that the Partners operate in compliance with environmental regulations is part of the baseline requirement.

- Provide training and expert interpretation for each environmental program, as requested.
- Conduct routine environmental outreach programs (e.g., Earth Day, environmental forums, brown bag lunches, etc.).
- Serve as a technical expert on environmental issues, act as a Center focal point for coordination of environmental compliance (in conjunction with Civil Servants), and notify the Center of new and proposed regulations that may impact ARC operations.
- Provide technical consultation services including review of projects, documents, plans, policies, procedures, guidelines, handbooks, etc.
- Develop, revise, and implement various policies, plans, procedures, and guidelines.
- Meet as often as necessary with NASA and/or Contractor employees and provide consultation on all types of environmental issues. Prepare briefing materials and meeting summaries as requested.
- For the major programmatic areas described in Section 2.0 and others as needed, compile information and prepare all environmental documentation required by regulatory agencies and NASA Headquarters (e.g., environmental permit applications, contingency plans, hazardous materials management plans, violation correction documentation, PCB quarterly inspections, annual reports, etc.). Significant effort shall be expended to ensure permit conditions and corrective actions are in the best interest of the Government and that all documentation is free of significant errors.
- Operate and maintain the Ames industrial wastewater pre-treatment facility, including microfiltration and reverse osmosis, in compliance with the Palo Alto Regional Water Quality Control Plant requirements.
- Conduct air, water, soil, and material sampling and analysis as required to assess:
 - ARC compliance with environmental regulations
 - Environmental impact of chemical release or spill
 - Environmental permit requirements; and
 - Other potential environmental impacts not covered under regulations
- Maintain Government records including physical maintenance of environmental facility records and compliance documentation. Records shall be maintained in an organized, accessible manner, in accordance with federal, State, and local regulations and NASA policy. The Government shall be afforded access to these records at all times. Existing Government databases shall be used and maintained, except as specifically approved by the Government.
- Track the status of environmental programs, including, but not limited to: permits, inspections, studies and reports, spills, surveys, and corrective actions using databases and other appropriate information technology.
- Provide full-scale analytical services, by laboratories that meet applicable federal, state, and/or local certification requirements.

- Serve as technical point of contact and interface with Federal, State, and local regulatory agencies as needed.
- Implement employee awareness and community participation programs including, open houses, fairs, and public meetings; and develop and distribute fact sheets, information bulletins, etc. Maintain up-to-date mailing lists for various environmental programs. Maintenance and upgrade the Environmental Services Office Home Page.
- Track the training status of all ARC personnel, including both civil servants and contractors, involved in activities that could impact storm water; management or operation of above ground tanks; industrial waste water; underground storage tanks; and any other environmental compliance training requirement that is stipulated by federal, state, or local laws, regulations, or ordinances. Maintain training records in the format specified by regulations, and by ARC.
- Participate as 24-hour emergency response team members.
- Provide environmental labels and signs.

2.1.2 Documentation Requirements

The Contractor shall submit technical reports describing each activity, including analytical data and field notes. Many of the environmental documents needed for compliance with federal, state, and local regulations shall also be compiled by the Contractor including annual chemical inventory, building specific emergency response plans, air and water quality permitting applications and reports, etc. In addition, the Contractor shall prepare correspondence for Ames to be submitted to various regulatory agencies, to internal NASA organizations, and to Resident Partners. The Contractor shall prepare all reports and plans required by environmental regulations for NASA signature. All data, database systems, and database documentation obtained or developed during this contract must be provided to the Government upon request and in the format specified by the Government.

2.1.3 Supplemental Information

- This information is provided to further describe the operations at ARC. The details are subject to change because operations change regularly.
- NASA Ames Research Center contains approximately:
 - 3 PCB transformers and approximately 10 PCB-contaminated transformers
 - 4,500 PCB-containing capacitors and transformers
 - 5 PCB-containing rectifiers
 - 6 PCB-contaminated oil circuit breakers
- There are about 150 air pollution sources on the Center. These include boilers, solvent cleaning sources, an incinerator, spray booths, sawdust sources, and fuel tanks.
- The Center's wastewater discharges to two separate Publicly Owned Treatment Works (POTWs). Combined, there are about 200 industrial wastewater discharge sources, the largest volume consisting of cooling water. Other sources include photo processing, equipment washing, boiler blowdown, and aircraft washracks. An industrial wastewater pre-treatment plant is currently in operation.
- The Santa Clara Valley general NPDES permit covers the entire Center for industrial storm water discharges. There is also an NPDES permit

for treated groundwater. ARC is subject to MS4 permitting requirements.

- There are over 8000 different chemicals in over 100 different storage locations at ARC facilities.

2.2 Hazardous Waste Management

2.2.1 Contractor Responsibilities

The Contractor shall:

- Manage the facility-wide hazardous waste management program and inform NASA management of required program changes and/or opportunities for improvement.
- Properly characterize waste for reuse, recycling, or disposal, subject to review and concurrence by the ARC Environmental Office. Maintain organized file of waste characterization analyses.
- Collect, package, transport, and dispose of hazardous wastes for the entire Ames Research Center and other duties as described below. Separate CTOs will be provided for hazardous waste generated by Resident Partners.
- Operate onsite hazardous waste treatment systems, currently 2 different oil/water separator systems.
- Provide services required by all ARC facilities and personnel (including Resident Partners) for handling, storage, treatment, and disposal of hazardous wastes. NASA is not a permitted Treatment, Storage and Disposal Facility (TSDF). The Contractor shall provide all services up to, and including transporting the waste to a permitted TSDF. Those services, at a minimum, include:
 - Obtaining all required materials associated with the program (e.g., waste containers, labels, and packaging materials).
 - Pickup of hazardous waste on request and provision of appropriate packaging for shipment and recycling, reuse, treatment, or disposal. Depending on classification of waste, pretreatment, neutralization, consolidation, recycling, or other disposition may be required. Hazardous waste shall be reclaimed, recycled, or treated whenever possible. Deep well injection shall not be used.
 - Manifesting of hazardous waste in order to comply with applicable regulations.
 - Providing a properly executed Uniform Hazardous Waste Manifest signed by a NASA representative from the Environmental Services Office every time hazardous waste is removed from the Center. The Contractor shall maintain records of all such manifesting documentation. The Contractor shall also manage the manifest file, including sending the appropriate copies and discrepancy reports to the state Department of Toxic Substance Control.
 - Providing qualified personnel, equipment, and packaging materials to identify, classify, package, document, and transport all reclaimable unwanted chemicals for recycling and all non-reclaimable hazardous chemical wastes for treatment or disposal at permitted sites.
 - Auditing off-site treatment, storage, and disposal facilities used by the Contractor, and any other treatment, storage, and disposal facilities as requested by NASA, and provide an audit report in format specified by NASA.

- Providing advice to waste generators regarding proper labeling, storage and management of hazardous waste.

Prepare and update a Centerwide hazardous waste contingency plan, which includes all 90 day accumulations sites.

- Pick up and deliver unused chemicals to the Ames Chemical Exchange (ACE) program. The program makes available to the Ames community excess, but usable, chemicals.
- Maintain a computer database for tracking of hazardous waste pickups and management costs (including labor, materials, transportation, analytical lab costs, disposal site charges, etc.). Enter data into Government tracking systems as required.
- Track the training status of all hazardous waste generators and hazardous waste management personnel at ARC, and maintain records in accordance with regulations, and as required by ARC.
- Participate as 24-hour emergency response team members.
- Provide hazardous waste labels and signs.

2.2.2 Documentation Requirements

The Contractor shall provide monthly summaries of hazardous waste activity in database report format, annual reports of waste generation for County and state reporting, biennial reports for compliance with EPA regulations, and other regulatory and ad hoc reports as requested by NASA. In addition, the Contractor shall prepare correspondence for Ames signature to be submitted to various regulatory agencies, to internal NASA organizations, and to Resident Partners. The Contractor shall prepare all reports and plans required by environmental regulations for NASA signature. All data, database systems, and database documentation obtained or developed during this contract must be provided to the Government upon request and in the format specified by the Government.

2.2.3 Supplemental Information

There are over 200 hazardous waste pickup locations at Ames. Approximately 350 tons of hazardous waste is generated annually. Types include oils, solvents, acids, laboratory chemicals, and contaminated soil. For a list of the major waste streams and volumes at Ames please see Section 7.4. These details are subject to change because operations change regularly.

2.3 Pollution Prevention and Sustainability

2.3.1 Contractor Responsibilities

The contractor shall:

- - Manage and implement the Ames Pollution Prevention and Hazardous Waste Minimization programs.
- - Conduct pollution prevention opportunity assessments and report findings, and advise the government of specific ways to minimize hazardous waste generation at ARC.
- - Determine specific substitutes for hazardous materials use at ARC, and assist in their implementation.
- - Develop and implement an automated system for tracking and reporting target chemical usage, and implement phase-outs.

- - Manage the Ames Chemical Exchange (ACE) program, which includes proper storage and tracking of reusable hazardous materials. The program makes available to the Ames community excess, but usable, chemicals.
- - Coordinate Ames Pollution Prevention Award program.
- - Prepare EPCRA Form R, Pollution Prevention, and other related reports. Enter data into Government tracking systems, as specified.
- - Coordinate center-wide recycling; provide recycling reports and literature.
- - Advocate and track affirmative procurement center wide.
- - Support ARC participation in the Federal Network for Sustainability, the Sustainable Silicon Valley Project, and similar programs as directed by ARC.
- - Conduct pollution prevention and sustainability outreach activities.
- - Participate as 24-hour emergency response team members.

2.3.2 Documentation Requirements

The Contractor shall provide the annual Pollution Prevention report, and other regulatory and ad hoc reports as requested by NASA. In addition, the Contractor shall prepare correspondence for Ames signature to be submitted to various regulatory agencies, to internal NASA organizations, and to Resident Partners. The Contractor shall prepare all reports and plans required by environmental regulations for NASA signature. All data, database systems, and database documentation obtained or developed during this contract must be provided to the Government upon request and in the format specified by the Government.

2.3.3 Supplemental Information

Ames is a member of the Federal Network for Sustainability (FNS), which includes the following initiatives: electronic products stewardship, environmental management systems, green power procurement, and greening federal copier paper. These details are subject to change because operations change regularly.

2.4 Wildlife and Habitat Conservation and NEPA Compliance

2.4.1 Contractor Responsibilities

The Contractor shall:

- Provide services for analysis, documentation preparation, and implementation of programs related to NEPA, the Environmental Justice Executive Order, cultural resources laws, the Endangered Species Act, the Coastal Zone Management Act, and other natural resources laws.
- Coordinate with the government in planning and management decisions regarding its natural and cultural resources. Prepare and implement an Integrated Natural Resources Management Plan.
- Use and maintain the Government's ARC GIS to manage and track natural and cultural resource data.
- Conduct biological and cultural resource surveys and evaluations as needed.
- Prepare and implement habitat management plans.
- Improve onsite habitat for the Western burrowing owl, the Western pond turtle, and other species as specified by the Government.

- Update the Environmental Resources Document, which describes existing Ames activities and programs and their impact on the environment.
- Analyze impacts of proposed Ames activities using a NEPA checklist, and prepare a Record of Environmental Consideration for signature by the Government. Review and provide comments on Environmental Assessments and Environmental Impact Reports. Enter data into Government tracking systems as required.
- Track implementation of mitigation measures that the Government has committed to in NEPA documents.
- Support NEPA public participation requirements.
- Participate in ecological assessments to determine the effects of contaminants on environmental receptors and establish appropriate monitoring and remedial actions.
- Participate in, and review, studies regarding tidal restoration.
- Participate as 24-hour emergency response team members.

2.4.2 Documentation Requirements

The Contractor shall prepare and keep up-to-date all documentation required by NEPA, the Environmental Justice Executive Order, cultural resources laws, the Endangered Species Act, the Coastal Zone Management Act, other natural resources laws, and ARC policies, procedures, and guidelines.

2.4.3 Supplemental Information

- There are several endangered, threatened, or species of local concern at Ames. These include the California clapper rail, the salt-marsh harvest mouse, the Western burrowing owl, and the Western pond turtle.
- Wetlands and historical buildings are present. No archeological sites on the property have been deemed eligible for the National Register of Historic Places.

2.5 Site Investigation and Restoration

2.5.1 Contractor Responsibilities

The Contractor shall:

- Provide management of the site investigation and restoration program including:
 - - Site investigation and remediation activities
 - - Review and evaluation of regional and Navy Superfund reports, Corrective Action Plans, etc. including provision of comments and recommendations in writing.
 - - Underground storage tank compliance
 - - Installation and survey of groundwater monitoring wells
 - - Conduct sampling and analysis of soil, soil vapor, sediment, surface water, and groundwater including preparation of Work Plans, study designs, and reports, as required.
 - - Operate remediation, treatment, and other engineered pollution control systems as directed by the Government.

- - Maintain and operate Geographic Information Systems (GIS Solutions) for management and reporting of subsurface information.
- - Participate as 24-hour emergency response team members.
- - Attend meetings with regulators, other responsible parties and the public.
- - Provide site investigation and restoration fact sheets, display posters and other public participation materials as specified by the Government.
- - Prepare and update a working schedule of all reviews, investigations, and remedial actions; detailing tasks and deliverable dates.

2.5.2 Documentation Requirements

The Contractor shall provide written evaluations of site restoration related reports prepared by other parties. The Contractor shall prepare the required reports and correspondence related to their sampling activities and operation of remediation and pollution control equipment. Furthermore, the Contractor shall prepare compliance reports related to underground storage tank management and other ad hoc reports as requested by NASA.

2.5.3 Supplemental Information

- This information is provided to further describe the operations at Ames Research Center. The details are subject to change because operations change regularly.
- Approximately 100 groundwater-monitoring wells require sampling 1 to 4 times a year for fuels and solvents. Several of the wells are also analyzed for PCBs and lead. The wells are approximately 30 feet deep. Two groundwater-monitoring wells, approximately 200 feet deep, also require annual sampling. Occasionally agricultural wells may require sampling.
- Approximately 10 to 20 soil borings and/or monitoring wells may need to be installed per year. Shallow soil sampling is required at various locations where releases may occur during the year. Various sampling methods may be required.
- NASA is down-gradient from the Middlefield-Ellis-Whisman (MEW) Superfund site. NASA is also down-gradient from the Naval Air Station Moffett Field Superfund site.
- For the NASA sites that are not located over the combined MEW and Navy regional plume, NASA has signed voluntary cleanup agreements with the California Department of Toxic Substance Control.
- One groundwater pump and treat system is currently in operation, and several groundwater pump and treat systems are currently contemplated.
- A subsurface permeable reactive barrier is currently being designed.

2.6 Environmental Management Systems

2.6.1 Contractor Responsibilities

The contractor shall:

- Keep the Ames Environmental Handbook (Ames Procedures and Guidelines [APG] 8800.3) and the Environmental Management System aspects and impacts updated.
- Conduct timely and accurate annual compliance self-assessments in an approved format, using a NASA-specified protocol. Currently, ARC uses the CERL protocol. Each Directorate is assessed every 3 years. Track findings and corrective actions in the Government database system, or other NASA approved standard database.
- Prepare and conduct EMS briefings for ARC line management. Prepare EMS outreach materials for ARC personnel.
- Track and implement corrective actions resulting from the NASA Headquarters Environmental Functional Review every 3 years. Use Government tracking systems as specified.
- Prepare, implement, and track adherence to Corrective Action Plans for instances of non-conformance identified in annual self-assessments and facility inspections, using government tracking systems as specified.
- Track ARC status in achieving EMS and Environmental Performance Track goals and objectives. Assist the Center in achieving these goals.
- Provide ARC with recommendations for improving Centerwide environmental management programs.
- Represent the Environmental Office on the ARC Permit Review Board. The Contractor shall provide qualified environmental professionals as members of the Facility Construction Permit Review Board. This board reviews all construction plans on the Center to ensure compliance with applicable codes, standards, regulations, and policies. Prior to construction, the Board issues construction permits. Number of permits has averaged approximately three per week.
- Assist the Center in implementation of environmental life cycle analyses.
- Participate as 24-hour emergency response team members.

2.6.2 Documentation Requirements

- The Contractor shall provide written reports of environmental self assessment findings and corrective action status. The contractor shall maintain written documentation as required by the ARC EMS.

2.6.3 Supplemental Information

- This information is provided to further describe the operations at Ames Research Center. The details are subject to change because operations change regularly.
- ARC is a member of the EPA's National Environmental Performance Track Program
- ARC has a formal EMS that meets the requirements of Executive Order 13148. We are not ISO 14001 certified.

3 Functions to be Performed: Collaborative Elements

The following elements are to be performed in support of the Environmental Services Office, in coordination with the Safety, Health, and Medical Services Office.

3.1 Emergency Response

3.1.1 Contractor Responsibilities

The Contractor shall:

Provide 24-hour emergency response coverage, 365 days a year.

- From 8:00 a.m. to 4:30 p.m., Monday through Friday, except government holidays, the contractor shall return all phone or pager calls within 5 minutes to the NASA dispatch personnel or Code Q on-call civil servant and respond physically to the ER site and the incident commander (typically the Ames Fire Chief) within 15 minutes of the first call from the NASA dispatch or the Code Q on-call civil servant.
 - At all other days and times, except from 8:00 a.m. to 4:30 p.m., Monday through Friday
 - the contractor shall return all phone or pager calls within 10 minutes to the Code Q on-call civil servant or NASA dispatch
 - respond physically to the ER site and the incident commander (typically the Ames Fire Chief) within 60 minutes of the first call from the Code Q on-call civil servant or NASA dispatch which ever was first.
 - The plant engineer team will provide response to and clean-up of routine hazardous materials releases.
 - The contractor shall evaluate the hazardous materials release scene and shall
 - Notify the government of regulatory reporting requirements, and shall make all required notifications in the absence of the government.
 - Determine if additional safety, health and environmental human resources are required and if so:
 - Provide within 90 minutes environmental professionals to the scene, as appropriate.
 - act as the on-site safety officer providing safety, health and environmental information, and compliance assistance.
 - in the case of an unusually large or complex release, the contractor's trained personnel shall participate in the response and clean-up.
 - Typical emergency responses are chemical, biological, and/or radiological in nature. For example, these responses are related to gas odors, spills, safety and health issues, tank alarms, toxic gas alarms, etc.
- Assist the Ames Fire Department and Plant Engineering in performing confined space rescue ER incidents, by providing typical safety and health duties that would support such an entry.
 - Participate in emergency preparedness planning activities, training, and practice drills.
 - The contractor shall ensure that at least ten on-site personnel are trained to wear respirators and trained to the First Responder Operations level and the Hazardous Materials Industrial Technician level.
 - Develop safety plans for hazardous material incident response and participate as emergency response team members for Hazmat Levels A, B, C and D.
 - Purchase and maintain emergency response equipment as needed. The Contractor shall request purchase authority for any order of materials, supplies, and pharmaceuticals, unavailable through Stores Stock, which exceed \$200. These requests shall be approved by the COTR prior to purchase.

3.1.2 Documentation Requirements

The Contractor shall furnish a written report upon completion of each emergency response. The report shall include survey findings, analytical data, and recommendations to avoid a similar incident. Reports required by regulations shall be provided in the format and within the time frame specified by the applicable law. The Contractor shall prepare an annual summary of hazardous materials spills, and other ad hoc reports as requested.

3.1.3 Supplemental Information

- Significant interfacing and cooperation with other Emergency Response Teams (e.g. Plant Engineering, Safety Office, Fire Department, Disaster Assistance and Response Team, Moffett Security Police, Moffett Dispatch) will be required.
- Section 7.5 provides historical examples of emergency responses.

3.2 Training

3.2.1 Contractor Responsibilities

The Contractor shall:

- Develop, implement and maintain the Ames environmental training programs, which provide instruction for personnel in relevant policies, procedures, guidelines, and regulations. Courses offered under the training program shall include at a minimum:
 - Hazardous Waste & Environmental Essentials
 - Hazardous Waste Refresher
 - PCB Awareness
 - New Hire Safety & Environmental Training
 - Manager's Safety, Health, and Environmental Awareness
 - Storm Water Pollution Prevention
 - Building Emergency Action Plan
 - Spill Response - First Responder
- Audit training activities, develop and present various training courses, and prepare training plans and reports as requested. Prepare annual training plan, to be updated quarterly.
- Develop, update, and standardize course curricula.
- Review/acquire additional expertise, courses, and/or materials for training as needs are identified by NASA.
- Maintain records of all training activities and a database of trained and certified personnel. Database to include fields selected by NASA.
- Provide certified trainers as required
- Maintain training rooms in clean, organized manner.
- Participate as 24-hour emergency response team members.

3.2.2 Documentation Requirements

The Contractor shall prepare monthly status reports including current training status for emergency responders, hazardous waste generators, operators of activities that could impact the storm water system, operators of above ground storage tanks, and operators of processes that generate industrial waste water, status of refresher training requirements, names and job descriptions of each person who attended the training, identifying the training courses that were completed, attendance reports, etc. as requested. If regulations require training records to be in a specific format, the Contractor shall maintain them in that format.

4 General Requirements

4.1 Administrative Support

The Contractor shall provide the administrative resources, including secretarial and clerical personnel, to support all the requirements of the Statement of Requirements, including maintenance of archive documentation in an organized and accessible format. This documentation shall include all reports prepared by the Contractor.

4.2 Technical Presentations

The Contractor shall provide oral or written technical presentations, as requested by NASA, concerning any topic covered in this SOR.

4.3 Reports & Documentation

The Contractor shall submit periodic, demand and event-driven technical, administrative, contract management, and financial management reports, by functional area, to provide a current and accurate picture of workload and project status during specified reporting periods varying from daily to annually, depending on the task. The Contractor may be required to change, modify, delete, or add report requirements as requested for NASA purposes. The Contractor shall submit information in electronic and/or hard copy formats as requested by NASA.

The Contractor shall either utilize NASA furnished databases or other NASA-authorized software, or provide software if requested by NASA. The Contractor shall also input data, maintain data, generate reports, train NASA employees on its use and furnish the software and its contents to the NASA. The software and its data contents are considered NASA property. At the conclusion of the contract, all software and data contents, including supporting documentation, shall be turned over to NASA.

4.3.1 Technical Reports

The Contractor shall provide, at a minimum, the technical reports as described under Documentation Requirements in Sections 2.0 and 3.0.

4.3.1.1 Standard Operating Procedures (SOP's)

In order to ensure that routine tasks are performed consistently and that comprehensive evaluations are conducted, the Contractor shall generate and maintain Standard Operating Procedures. The SOP's shall describe the methods to be used, data to be collected, standardized formats to be used for presentation of data and results, etc. SOP's shall be submitted to NASA for review and approval. SOP's shall be reviewed and updated as appropriate, at least annually. Where existing SOP's have been developed, NASA will make them available during phase-in.

4.3.1.2 Technical Progress Report

The Contractor shall prepare a technical progress report for all ongoing work and any work completed within the report period, including progress for the report period, any problems encountered or foreseen, and schedule summary. The contractor shall prepare a list and schedule of regulatory and technical deliverables, and submit it to

ARC within 90 days of contract award, and 90 days prior the start of subsequent fiscal years. The contractor shall amend this list and schedule as directed by the Government.

4.4 Off-Site Activities

The Contractor shall provide environmental services off-site as required by NASA CTOs. In addition, Contractor personnel shall travel to other locations as necessary in support of individual CTOs. All travel shall be authorized in advance by the Contracting Officer, COTR or authorized representative.

5 Additional Requirements

The Contractor shall provide the support necessary for the requirements described below on an as needed basis. The funding mechanism for these tasks shall be provided as specified in Section 1.5.5.2: Method 2.

5.1 Technical Studies

The Contractor shall conduct specified studies and/or analyses in various areas of environmental management. Studies could include compliance reviews, site investigations, audits and inspections, NEPA technical studies such as biological assessments, natural and cultural resource evaluations, human health risk assessments, and other environmental topics as requested. All technical studies work shall be described and controlled by CTOs.

5.2 Environmental Engineering Design and Equipment Installation

The Contractor shall prepare environmental engineering designs and/or conduct environmental engineering studies as directed by NASA CTOs. Designs and equipment installation could include remediation equipment, pollution control equipment, and other similar items as requested. All engineering design and installation shall be described and controlled by CTOs.

5.3 Engineering Cost Estimates

Prepare engineering cost estimates for actions recommended in inspection reports and self assessment findings.

5.4 Off-Site Activities

The Contractor shall provide environmental services off-site as required by NASA. In addition, Contractor personnel shall travel to other locations as necessary in support of individual CTOs. All travel shall be authorized in advance by the Contracting Officer, COTR or authorized representative.

5.5 Computer Services Support

The Contractor shall provide general support in the areas discussed below. The environment is heterogeneous from both a hardware and software standpoint.

- Computer systems operations support to include, at a minimum, performing periodic system and user backups, archiving and restoring files as needed, performing file directory cleanups, maintaining orderly operational areas, monitoring printers, maintaining an adequate supply of consumable items, etc.
- System Administration of computing resources to include, at a minimum, organizing file structures, including data and database administration, maintaining system and user accounts, managing disk storage, coordinating with support organizations for system preventive maintenance and repairs, troubleshooting system problems, preparing system status reports on performance and utilization, maintaining system configuration records, assisting with hardware and software installations, etc. The administrator is to make use of internal

support organizations to the maximum extent possible so that administration costs are minimized.

- System management of the computing environment to include, at a minimum, monitoring and tuning performance of systems, managing system resource allocations, trouble-shooting system problems, developing command procedures and tools as required, planning/monitoring/performing installation of hardware and software upgrades/products, preparing system management reports, establishing and implementing system security procedures as required, anticipating growth needs and assisting in plans to meet those needs, etc. The manager is to make use of internal support organizations to the maximum extent possible so that management costs are minimized.
- User support and assistance for approximately 60 users through consultation, training in the use of automated resources, trouble-shooting user problems, and responding to user queries.
- Network operations support to include, at a minimum, monitoring communications equipment, coordinating with support organizations for network equipment maintenance and repairs, maintaining communications configuration records, trouble-shooting network problems, maintain security in accordance with NASA policy.
- Development, maintenance, operation and web-implementation of 4D™ database for the chemical inventory, training, and other environmental programs.

Written documentation for all databases, including file structures, code, data dictionaries, user manuals, etc.

6 Personnel Qualifications

Certain positions and levels of experience within the environmental disciplines are considered most important to the successful performance of this contract. Assignments may be given in terms of general objectives and are frequently characterized by problems that are not clearly defined. The Contractor shall analyze the problem, formulate an approach for solution, and conduct follow-up investigations. Contractor personnel must have proven ability to plan work in detail, be innovative, be responsive, estimate costs, develop and follow project schedules, track performance, update plans as required, and coordinate their activities within the structure of a larger project team and complex regulatory framework. Minimum qualification standards of the staff to accomplish this work are defined below.

The Contractor shall provide personnel for each of the following functions.

6.1 Program Manager

The Program Manager (PM) will provide overall management and technical leadership for the Contractor's staff. The PM acts as a focal point for interfacing with government representatives. The PM shall establish procedures for accomplishing all aspects of the various work functions of the Statement of Requirements. The PM shall organize, direct, monitor, and motivate the Contractor staff in their execution of the work functions; and establish procedures to review the technical adequacy and accuracy of analyses and reports prepared by the staff. The PM shall at a minimum have a Bachelor's degree in an appropriate environmental discipline, and a minimum of seven (7) years experience in managing a sizable environmental compliance effort involving several of the work functions described in this Statement of Requirements.

6.2 Administrative Manager

The Administrative Manager (AM) is generally responsible for human resources, industrial relations, travel, finance, procurement, data processing, subcontracting, etc. The AM directs the reporting of all contract costs, such as Contractor staff work hours, material procurement, and subcontracting, to appropriate cost accounts required by NASA. The AM is responsible for the operation and maintenance of a cost accounting and financial reporting

system adequate to identify and discriminate among costs for the various work functions, in a timely manner. The AM shall provide to the Government, upon request, the amount of funds that have been expended to date for that fiscal year on each CTO, and the amount the Contractor plans to spend for the remainder of the fiscal year. The AM shall have a Bachelor's degree in Business Administration or Accounting or a closely related field, and a minimum of five (5) years of experience in financial management of a government contract of comparable size or larger.

6.3 Technical Leaders

Technical Leaders (TLs) shall perform fieldwork as well as provide expertise and coordination for the Contractor's personnel assigned to one or more functional areas. TLs shall be responsible for technical matters relating to their functional areas, coordinate work with other work functions of the contract, coordinate with other Centerwide contract personnel, and attend meetings as requested for the work function being supported. TLs shall interface regularly with the respective NASA professionals to assess, coordinate, and adjust the effort of ongoing Contract Task Orders, and provide informal assessment of individual CTO performance, status, and schedule. The TLs shall ensure that all technical data generated by the Contractor is available in an easily accessible electronic format. Technical Leaders shall have a minimum of a Bachelor's degree, and at least ten (10) years experience in the disciplines of their functional areas of responsibility and a minimum of five (5) years in an environmental technical leadership capacity.

6.4 Environmental Services

6.4.1 Environmental Compliance

The Environmental Compliance leader shall at a minimum have a Bachelor's degree in Environmental Studies, Environmental Science or Environmental Engineering or a closely related field (with at least twelve (12) units in Chemistry) and a minimum of ten (10) years related experience. The environmental staff shall include a Certified Hazardous Materials Manager certified by the Institute of Hazardous Materials Management. The industrial wastewater treatment operator shall be certified, as required by applicable regulations and appropriate professional standards. Environmental Compliance staff may include a maximum of 2 technician level personnel who have a minimum of 5 years experience in the environmental field to which they are assigned, and a minimum of a 2 year degree in hazardous materials management or environmental studies. All other personnel assigned to the environmental program must have a minimum of one (1) year of related experience and a relevant bachelor's degree.

6.4.2 Hazardous Waste Management

At a minimum, the Hazardous Waste Management leader shall have a Bachelor's degree in Chemistry, Chemical Engineering, Environmental Engineering, or closely related field with at least ten (10) years experience.

The staff shall include a lead hazardous materials chemist, who shall have a Bachelor's degree in Chemistry or equivalent, and a minimum of three (3) years of experience in the collection, classification, packaging, manifesting, and shipment of hazardous waste. Other personnel assigned to the hazardous waste program shall have a minimum of one year of related experience and a relevant Bachelor's degree, or a minimum of 3 years of related experience and a 2 year degree in hazardous materials management.

6.4.3 Pollution Prevention and Sustainability

At a minimum, the Pollution Prevention/Sustainability leader shall have a Bachelor's degree in Environmental Studies, Environmental Policy, Environmental Engineering, or closely related field, with at least twelve (12) units in Chemistry) with at least ten (10) years of relevant experience.

Other personnel assigned to this program shall have a minimum of one year of related experience and a relevant Bachelor's degree.

6.4.4 Wildlife and Habitat Conservation and NEPA Compliance

The Conservation/NEPA Compliance leader shall have a Bachelor's degree in Biology, Natural Resources Management, Environmental Policy, or closely related field and a minimum of ten (10) years relevant experience.

Other personnel assigned to this program shall have a minimum of one year of related experience and a relevant Bachelor's degree.

6.4.5 Site Restoration

The Site Restoration leader shall at a minimum have a Bachelor's degree in Geology, Soil Science, Hydrogeology, or a closely related field (with at least 12 units in chemistry) and a minimum of ten (10) years related experience. The staff shall include a California Registered Geologist with at least 5 years experience in subsurface investigation and site remediation. Other personnel assigned to this program shall have a minimum of one year of related experience and a relevant Bachelor's degree.

6.5 Collaborative Elements

6.5.1 Training Specialist

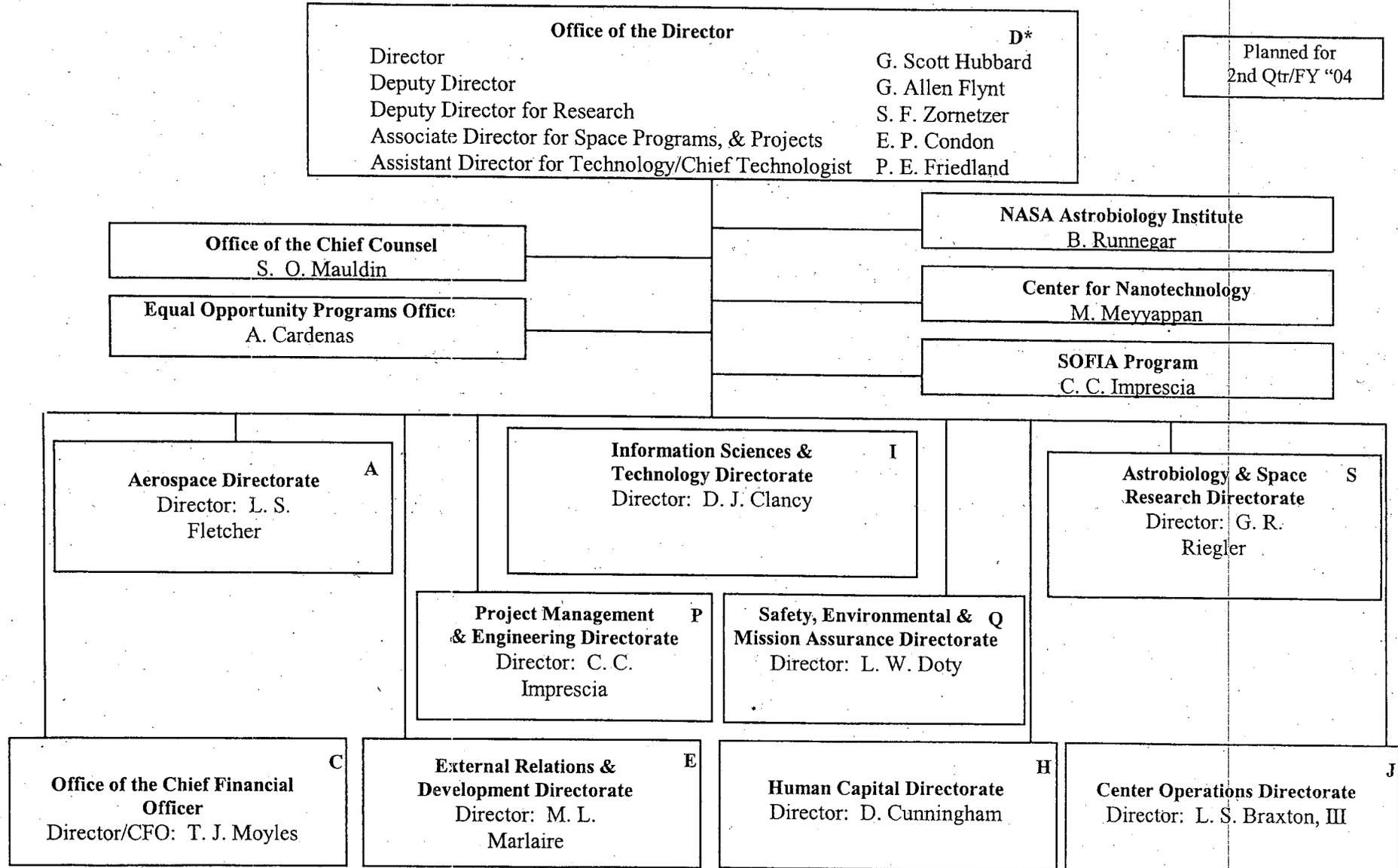
The Training Specialist (TS) shall conduct training courses in one or more facets of hazardous materials management and environmental compliance. The TS shall at a minimum have a Bachelor's degree in an appropriate environmental discipline and five (5) years experience in identifying, planning, and coordinating the above mentioned training activities and in designing, developing, conducting, and evaluating training courses using a variety of training techniques and methods. The TS must have excellent communication skills. Any regulatory requirements for qualifications of trainers must be met.

6.5.2 Emergency Response

A minimum of ten (10) onsite contractor personnel must wear pagers or cell phones and meet training and medical requirements to provide effective 24-hour response to hazardous material incidents that may occur at the Center, including spills and releases in laboratories in the event of an earthquake, fire, flood, or other emergency condition. This activity is a required collateral duty for contract personnel.

7.1 Ames Organizational Chart

New Ames Organization



Planned for
2nd Qtr/FY '04

*V. Lebacqz & N. Bingham on special assignment



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7.3 Installation-Accountable Government Equipment

ECN	OWNER	DESCRIPTION	MFG SERIAL NO	EQUIP	EQUIP
				BLDG	ROOM
1970388	G	FINETEC PC	067600	N221	97
1556857	G	SONY Multi-scan 17SF PC MONITOR	7187755	N221	98
1731442	G	MICROCOMPUTER	647074-001	N221	98
1804614	G	HITACHI PC MONITOR	T6K018583	N221	98
1808755	G	SONY 200ES PC MONITOR	4049674	N221	98
2072511	G	COMPUTER	6032FQX3A359	N221	98
XX20044	NASA	Dayton Portable Blower	917276	N221	98
XX20045	NASA	Garden tool-spade	n/a	N221	98
XX20046	NASA	Garden tool-hoe	n/a	N221	98
XX20047	NASA	Garden tool-pickax	n/a	N221	98
XX20048	NASA	Garden tool- narrow spade	n/a	N221	98
XX20049	NASA	Canon EOS Digital camera	n/a	N221	98
XX20050	NASA	Tamron 300mm camera lens	n/a	N221	98
XX20051	NASA	Rival Titan heater	n/a	N221	98
2072559	G	SONY VAIO Laptop	PCG-GRX500K	N221	99
XX20162	NASA	Apollo laser pointer	n/a	N221	99
1803289	G	HITACHI PC MONITOR	T6K018572	N221	100
1968164	G	PC MONITOR	77007612	N221	100
1970381	G	HP LASERJET 2100TN	USDQ27474	N221	100
XX20056	NASA	Fahrenheit heater	26429	N221	100
XX20057	NASA	Lumina fax machine	111300-310628	N221	100
XX20058	NASA	Advent speakers	2399906418	N221	100
XX20059	NASA	Mini view switcher	n/a	N221	100
1555514	G	MICROCOMPUTER	9401490	N221	101
1803291	G	HITACHI PC MONITOR	T6K018789	N221	101

1807549	G	PC MONITOR	FF7430791	N221	101
XX20060	NASA	HP Scanjet scanner	SG9661723S	N221	101
XX20062	NASA	Holmes fan	n/a	N221	101
XX20063	NASA	HP Deskjet 1220c	SG321130WT	N221	101
XX20103	NASA	Soundstation Polycom	n/a	N221	106
1803312	G	MICROCOMPUTER	82881-0001	N221	107
1804101	G	Powermac 8600/200	XB7250L2A6V	N221	107
2072587	G	SONY VAIO LAPTOP PC	PCG-FRV28	N221	107
XX20104	NASA	Micron speakers	n/a	N221	107
XX20105	NASA	Sony Trinitron Monitor	1.152888	N221	107
XX20106	NASA	Oscillating fan	n/a	N221	107
XX20107	NASA	3-hole punch	n/a	N221	107
XX20108	NASA	3-hole punch	n/a	N221	107
XX20109	NASA	Dell Trinitron Monitor	7050450	N221	107
XX20110	NASA	Advent speakers	n/a	N221	107
XX20111	NASA	Belkin Omni-cub 4-port switcher	n/a	N221	107
XX20112	NASA	HP Deskjet 970cxi	MY1211813B	N221	107
XX20113	NASA	Princeton Monitor	LCAY44405696	N221	107
XX20114	NASA	AEMC Data Logger	01M35824DV	N221	107
XX20115	NASA	Kensington USB switcher	A0352000400	N221	107
XX20116	NASA	Micron speakers	n/a	N221	107
XX20117	NASA	Hitachi Monitor	CM7514-512	N221	107
XX20241	NASA	Hanna Handheld pH Meter	n/a	N221	107
XX20242	NASA	Hitachi Monitor, 17"	07J003153	N221	107
2072509	G	HP DESIGNJET PLOTTER 5000PS	PR16392	N221	108
XX20122	NASA	Micron speakers	n/a	N221	108
XX20123	NASA	MiniRAE PID	101368	N221	108
XX20124	NASA	Gateway Monitor	V9B020154	N221	108
XX20125	NASA	Generic speakers	n/a	N221	108
XX20359	NASA	Oaktron pH meter	104699	N221	108
XX20360	NASA	Solonist 150' Well sounder	31340	N221	108

XX20361	NASA	Solonist Mini 30' Well sounder	24877	N221	108
XX20362	NASA	Solonist 100, Well sounder	20574	N221	108
XX20363	NASA	Slope and oil/water indicator: Well sounder	5624	N221	108
XX20364	NASA	Hand auger w/ slam bar/sample head	n/a	N221	108
XX20365	NASA	Tool drop box w/ misc. hand tools	n/a	N221	108
XX20366	NASA	Ensys kit	n/a	N221	108
XX20367	NASA	Shovel	n/a	N221	108
XX20368	NASA	Hand trowel	n/a	N221	108
XX20369	NASA	Hand trowel	n/a	N221	108
XX20370	NASA	Hand trowel	n/a	N221	108
XX20371	NASA	Hand trowel	n/a	N221	108
XX20444	NASA	Digital Camera: Olympus C-3040	153706889	N221	108
XX20013	NASA	ISCO Five station battery charger	09173-018	N221	118
XX20014	NASA	WONDERMAKERS Air pump	0990R	N221	118
XX20001	NASA	AIR SAMPLER	n/a	N221	155
XX20002	NASA	AIR SAMPLER	n/a	N221	155
XX20003	NASA	AIR SAMPLER	n/a	N221	155
XX20004	NASA	AIR SAMPLER	n/a	N221	155
XX20005	NASA	AIR SAMPLER	n/a	N221	155
XX20006	NASA	AIR SAMPLER	n/a	N222	155
XX20001	NASA	AIR SAMPLER	n/a	N221	155
XX20002	NASA	AIR SAMPLER	n/a	N221	155
XX20003	NASA	AIR SAMPLER	n/a	N221	155
XX20004	NASA	AIR SAMPLER	n/a	N221	155
XX20005	NASA	AIR SAMPLER	n/a	N221	155
XX20034	NASA	Grunfos reel pump w/ controler	P196021701	N221	155
XX20035	NASA	Paint Striper	n/a	N221	155
XX20036	NASA	Garden tool-hoe	n/a	N221	155
XX20037	NASA	Garden tool-spade	n/a	N221	155
XX20038	NASA	Garden tool-rake	n/a	N221	155
XX20039	NASA	Garden tool-rake	n/a	N221	155
XX20040	NASA	Quincy sterlizer box	9506347	N221	155

XX20041	NASA	Sample ProAccessory Kit	SP-70225	N221	155
XX20042	NASA	Coffee pot	n/a	N221	155
XX20043	NASA	Rubbermaid Tractor Cart	n/a	N221	155
XX20506	NASA	ISCO 3710 Sampler	09166-040	N221	155
XX20507	NASA	ISCO 3700 Sampler	08996-003	N221	155
XX20508	NASA	ISCO 3700 Sampler	08855-108	N221	155
1970328	G	HP LaserJet 4000N PRINTER	USECO14438	N221	159
1970329	G	HP LaserJet 2500C PRINTER	SG8B71202M	N221	159
XX20118	NASA	2-hole punch	n/a	N221	159
XX20119	NASA	3-hole punch	n/a	N221	159
XX20120	NASA	Ibimatic spiral binding machine	20677	N221	159
XX20121	NASA	Swingline electric stapler	69270650	N221	159
1808516	G	PC MONITOR	75003162	N221	165
XX20237	NASA	Electric bicycle "Neobike"	n/a	N221	165
XX20238	NASA	Oscillating fan	n/a	N221	165
1368474	G	SONY Multi-Scan PC Monitor	S017108192E	N221	169
1601301	G	HITACHI ACCUVUE PC MONITOR	415038-58	N221	169
1730988	G	HITACHI 17" PC MONITOR	TGE010392	N221	169
1803296	G	MICRON Millenia PRO2	82881-0010	N221	169
1803311	G	HITACHI PC MONITOR	T6K0i8735	N221	169
1803331	G	HITACHI PC MONITOR	T6K018778	N221	169
2072505	G	IBM NetVista	23HXVM7	N221	169
2072569	G	IBM NetVista	KCV6PVB	N221	169
XX20094	NASA	Inland speakers	n/a	N221	169
XX20095	NASA	Inland speakers	n/a	N221	169
XX20096	NASA	HP Inkjet 1100DTN	CN38D220QD	N221	169
XX20097	NASA	Rival Titan heater	n/a	N221	169
XX20098	NASA	Oscillating fan	n/a	N221	169
XX20099	NASA	Gateway Monitor	V9D003324	N221	169
XX20100	NASA	Personal refrigerator	n/a	N221	169
XX20101	NASA	3-hole punch	n/a	N221	169

XX20102	NASA	Dayton handtruck	U862006287	N221	169
XX20458	NASA	HP 1100DTN Printer	CN38D220QD	N221	169
1803321	G	Hitachi 17" PC monitor	T6K018587	N221	170
1807803	G	COMPUTER	970623105	N221	170
2072560	G	SONY VAIO LAPTOP	3000012	N221	170
XX20086	NASA	3-hole punch	n/a	N221	170
XX20087	NASA	2-hole punch	n/a	N221	170
XX20088	NASA	HP Deskjet 990cse	MY21V1B1VR	N221	170
XX20089	NASA	Micron speakers	n/a	N221	170
XX20090	NASA	Aurora calculator	n/a	N221	170
XX20091	NASA	Lakewood heater	n/a	N221	170
XX20092	NASA	Oscillating fan	n/a	N221	170
XX20093	NASA	Inland speakers	n/a	N221	170
1804441	G	HITACHI PC MONITOR	T6KO18578	N221	171
1804796	G	MICRON MILLENNIA PRO2 PC	939327-0001	N221	171
1970382	G	HP LaserJet 2100TN	USDQ027495	N221	171
XX20084	NASA	TI5032SVC Calculator	L0498A	N221	171
XX20085	NASA	Lakewood heater	n/a	N221	171
1970391	G	FINE TEK PC	067603	N221	102A
2072510	G	COMPUTER	6032FQX3A385	N221	102A
2072568	G	IBM NetVista	8194F2UKCV6PWA	N221	102A
XX20446	NASA	Lakewood heater	n/a	N221	102A
XX20447	NASA	HP Deskjet 895 cxi	MX89S2T04Z	N221	102A
XX20452	NASA	Advent speakers	n/a	N221	102A
XX20453	NASA	Panasonic PM17 Monitor	FF7361612	N221	102A
XX20454	NASA	HP Inkjet 1100DTN	CN38K223PW	N221	102A
1803301	G	HITACHI PC MONITOR	T6K018638	N221	102B
1968898	G	DELL PC Monitor	00830-J041Z-58	N221	102B
1803316	G	MICROCOMPUTER	82881-0003	N221	102B
XX20067	NASA	Generic speakers	n/a	N221	102B

XX20068	NASA	Brother P-Touch Label Maker	C39209479	N221	102B
XX20069	NASA	Lamp	n/a	N221	102B
XX20070	NASA	Footrest	n/a	N221	102B
XX20071	NASA	Fahrenheat heater	n/a	N221	102B
1808518	G	PC MONITOR	75003161	N221	110B
1966380	G	PC MONITOR	G71030057	N221	110B
XX20138	NASA	Micron speakers	n/a	N221	110B
XX20139	NASA	3-hole punch	n/a	N221	110B
XX20140	NASA	2-hole punch	n/a	N221	110B
XX20141	NASA	HP Deskjet 895cxi	SG8BG1W07K	N221	110B
XX20142	NASA	Fahrenheat heater	n/a	N221	110B
1804748	G	PC MONITOR	WS021626	N221	162B
2072558	G	SONY VAIO Laptop	R2802803	N221	162B
2072780	G	NEC LCD MONITOR 17"	1X04934VA	N221	197A
XX20160	NASA	HP Deskjet 1220c	SG070130G7	N221	197A
XX20161	NASA	Sony G200 Monitor	9020589	N221	197A
XX20164	NASA	Altec speakers	n/a	N221	197A
XX20165	NASA	OTA speakers	n/a	N221	197A
XX20166	NASA	Micron speakers	n/a	N221	197A
XX20441	NASA	Advert subwoofer	n/a	N221	197A
XX20442	NASA	Belkin KVM switch	3022102109	N221	197A
XX20455	NASA	Advert subwoofer	n/a	N221	197A
XX20456	NASA	HP 1100DTN Printer	CN39F221QM	N221	197A
XX20457	NASA	HP 1100DTN Printer	CN38J222BV	N221	197A
1178796	G	WOLF PC	89108200	N221	197B
1363702	G	SUN PC monitor	36S1316-01	N221	197B
1363703	G	Sun Workstation	439F2650	N221	197B
1368255	G	HP Laser Printer	JPGL048821	N221	197B
1554708	G	SONY Multi-scan 17SF PC Monitor	7155089	N221	197B
1557952	G	HP Laserjet 4M+ PRINTER	S4601813HVY	N221	197B

1730347	G	PC MONITOR	T6D007267	N221	197B
1730348	G	PC MONITOR	TGD007273	N221	197B
1732603	G	LASERJET PRINTER	JPHK038082	N221	197B
1802217	G	Sun Workstation	708F0DFD	N221	197B
1803283	G	HITACHI PC MONITOR	T6K018573	N221	197B
1803305	G	PC MONITOR	T6K018783	N221	197B
1803307	G	PC	TroKO18728	N221	197B
1803326	G	MICROCOMPUTER	82881-0018	N221	197B
1803327	G	PC MONITOR	T6KO18584	N221	197B
1803332	G	MICROCOMPUTER	82881-0028	N221	197B
1803333	G	PC MONITOR	TGK018576	N221	197B
1803334	G	Micron Millennia PC	82881-0030	N221	197B
1807463	G	PC MONITOR	2G72001224	N221	197B
1807464	G	PC MONITOR	2G72501160	N221	197B
1807465	G	PC MONITOR	2G72501163	N221	197B
1807519	G	MICROCOMPUTER	9363IG-0001	N221	197B
1808506	G	PC MONITOR	07JO03150	N221	197B
1970331	G	APPLE POWERMAC G3 COMPUTER		N221	197B
1970389	G	Fine Tec PC	067602	N221	197B
1970401	G	COMPAQ ML370 TOWER	DO24DKFIK286	N221	197B
1970402	G	COMPAQ ML370 TOWER	DO24DKFIK163	N221	197B
1973623	G	UNITED MICROSYSTEMS PC	9908246	N221	197B
1975581	G	Mitsubishi 2040U PC monitor	005007133	N221	197B
2072502	G	COMPAQ ML370 TOWER	D033DKHIK007	N221	197B
2072503	G	COMPAQ 40/80 Tape drive	1K008401172	N221	197B
2072504	G	MICROCOMPUTER	D034KHIK192	N221	197B
2072526	G	PROLIANT ML 370 TOWER 1GHZ, 256K PC	D142FRY1K296	N221	197B
2072527	G	PROLIANT ML 370 TOWER 1GHZ, 256K PC	D142FRY1K376	N221	197B
2072555	G	PROLIANT ML 370 TOWER 1GHZ, 256K PC	D225KF51D288	N221	197B
XX20009	NASA	HP Deskjet 895cxi printer	SG8BG1W07N	N221	197B
XX20010	NASA	NEC monitor	2E792031	N221	197B
XX20011	NASA	Gateway Monitor	MIA8J7399034	N221	197B
XX20445	NASA	CTX Monitor	OR790402830	N221	197B
XX20459	NASA	APC UPS	C96036822982	N221	197B

XX20460	NASA	APC UPS	C9511C527794	N221	197B
XX20461	NASA	Compaq UPS	T1341A0771	N221	197B
XX20462	NASA	Compaq UPS	T1341A0766	N221	197B
XX20463	NASA	Micron speakers	n/a	N221	197B
XX20445	NASA	Sony Mavica digital camera	77023	N221	197B
1363780	G	UTILITY TRUCK	1B76N14X1JS92703	N221	LOT
1245460	G	MICROCOMPUTER	NONE	N229B	101
1360697	G	PRINTER, ADP	40U1028996	N229B	101
1558127	G	PRINTER	JPG155448	N229B	101
1803300	G	MICROCOMPUTER	82881-0005	N229B	101
1803323	G	HITACHI PC MONITOR	T6K018580	N229B	101
1804444	G	MICRON PC	82881-0020	N229B	101
1804749	G	HITACHI PC MONITOR	T7DOO123G	N229B	101
1808519	G	MICROCOMPUTER	1121407-OOOG	N229B	101
1968163	G	SONY TRINITRON Multi-scan 20SE Monitor	7007979	N229B	101
PENDING	G	APPLE SUPERMAC 5900	90F20A734006197	N229B	101
2072595	G	IMAGISTICS FAX MACHINE	9941354	N229B	101
1804365	G	LASERJET 6MP PRINTER	USBB088093	N265	101
XX20446	NASA	FLOOR SCALE	n/a	N265	101
XX20447	NASA	DRUM DOLLY	n/a	N265	101
XX20448	NASA	DRUM DOLLY	n/a	N265	101
XX20449	NASA	TRAY CART	n/a	N265	101
XX20450	NASA	TRAY CART	n/a	N265	101
XX20451	NASA	FLAT CART	n/a	N265	101
XX20452	NASA	FLAT CART	n/a	N265	101
XX20453	NASA	DRUM GRABBER	n/a	N265	101
XX20454	NASA	DRUM TIPPER	n/a	N265	101
XX20455	NASA	PALLET JACK	n/a	N265	101
XX20456	NASA	PALLET JACK	n/a	N265	101
XX20457	NASA	LADDER	n/a	N265	101
XX20458	NASA	LADDER	n/a	N265	101

XX20459	NASA	WHEEL BARREL	n/a	N265	101
XX20460	NASA	TANK/CYLINDER STORAGE CAGE	n/a	N265	101
XX20461	NASA	SHOP VACUUM	n/a	N265	101
XX20462	NASA	INDUSTRIAL FLOOR LIGHT	n/a	N265	101
XX20463	NASA	INDUSTRIAL FLOOR LIGHT	n/a	N265	101
XX20464	NASA	MERCURY VACUUM	n/a	N265	101
XX20465	NASA	SAWZALL	n/a	N265	101
XX20466	NASA	DEWALT DRILL	n/a	N265	101
XX20467	NASA	SOCKET SET	n/a	N265	101
XX20468	NASA	PROPANE TORCH	n/a	N265	101
XX20469	NASA	SLEDGE HAMMER	n/a	N265	101
XX20470	NASA	EXTENSION CORDS	n/a	N265	101
XX20471	NASA	PUMPS	n/a	N265	101
XX20472	NASA	HOSES	n/a	N265	101
XX20473	NASA	FUNNELS	n/a	N265	101
XX20474	NASA	FUNNELS	n/a	N265	101
XX20475	NASA	FUNNELS	n/a	N265	101
XX20476	NASA	FUNNELS	n/a	N265	101
XX20477	NASA	FUNNELS	n/a	N265	101
XX20478	NASA	FUNNELS	n/a	N265	101
XX20479	NASA	HAND PUMP	n/a	N265	101
XX20480	NASA	HAND PUMP	n/a	N265	101
XX20481	NASA	HAND PUMP	n/a	N265	101
XX20482	NASA	HAND PUMP	n/a	N265	101
XX20483	NASA	HAND PUMP	n/a	N265	101
XX20484	NASA	HAND PUMP	n/a	N265	101
XX20485	NASA	PUSH BROOMS	n/a	N265	101
XX20486	NASA	SHOVELS	n/a	N265	101
XX20487	NASA	hard hats	n/a	N265	101
XX20488	NASA	safety goggles	n/a	N265	101
XX20489	NASA	safety glasses	n/a	N265	101
XX20490	NASA	acid gloves	n/a	N265	101
XX20491	NASA	solvent gloves	n/a	N265	101
XX20492	NASA	aprons	n/a	N265	101

XX20493	NASA hammers	n/a	N265	101
XX20494	NASA sockets	n/a	N265	101
XX20495	NASA ratchets	n/a	N265	101
XX20496	NASA wrenches	n/a	N265	101
XX20497	NASA screw drivers	n/a	N265	101
XX20498	NASA leather gloves	n/a	N265	101
XX20499	NASA flash lights	n/a	N265	101
XX20500	NASA zip ties	n/a	N265	101
XX20501	NASA bungee cords	n/a	N265	101
XX20502	NASA wall hooks	n/a	N265	101
XX20503	NASA tape	n/a	N265	101
XX20504	NASA REFRIGERATOR	n/a	N265	101
XX20505	NASA MICROWAVE	n/a	N265	101

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7.4 Major Waste Streams

Waste Stream	Quantity (lb)	Waste Stream	Quantity (lb)
Antifreeze	1,460	Oil	18,284
Asbestos	52,200	Oil filters	1,101
Batteries, misc	75	Oil-contaminated water	98,611
Batteries, alkaline	1,250	Organic solution, aqueous	4,112
Caustic alkali solution	1,364	Paint-related materials (in cans) flammable	3,615
Cooling tower sludge	418	PBC contaminated debris	131
Diesel-water mixture	3,617	PCB light ballast	6,859
Empty drums for recycling	4,260	PCB oil, <500 ppm	3,513
Electronic waste	10,000	PCB oil, >500 ppm	174
Fluorescent light tubes	5,193	PD-680 solution	395
Gas Cylinder	499	Photochemicals/film	1,701
Garnet abrasive, with metals	4,668	Railroad ties	6,240
Inorganic acid solution	1,120	RCRA contaminated waste	6,327
Jet Fuel	2,101	RCRA flammable aerosol cans	745
Labpacks	2,336	RCRA non-flammable aerosol cans	52
Labpacks (mercury-containing wastes)	8	Solvents (D-code/F-code wastes) flammable	3,889
Latex paint	4,368	Settling basin soil, PCB, metals	28,320
Lead-acid batteries	7,672	Transformer, drained, non-PCB	5,460
Mixed waste	100	Trenching soil/debris	188,760
Mercury debris	395	Water with paint/resin	10,208
Non PCB light ballasts	1,260	Wash rack sludge w/metals	4,864
Non-RCRA consolidation waste (to landfill)	22,162		
		TOTAL	519,887

7.5 Emergency Response History

Year	Fluid from a vehicle or stationary engine/tank	Jet Fuel	Gas Leak or Gas/Smoke Odor including Fire	PCB oil, Capacitor, or Light Ballast	Mercury	Water including Grey/waste water	BBP, Body Fluid, PIM	Tank Alarm	Inadvertent fire suppression system discharge	Other Hazardous Material	Other Non-Hazardous	
	VS	JP	Odor	PCB	Hg	H2O	BBP	TA	FS	OHM	NHM	
1995	6	2	4	0	0	1	0	0	1	0	1	199
1996	16	5	2	9	3	1	0	0	1	4	1	199
1997	14	7	4	1	5	2	5	1	1	3	1	199
1998	10	6	2	0	0	1	1	4	0	2	3	199
1999	10	5	2	1	0	1	0	0	0	1	0	199
2000	5	3	0	2	0	2	3	0	0	3	0	200
2001	7	2	2	2	2	0	0	0	0	3	0	200
2002	10	3	0	2	2	3	0	1	1	7	1	200
2003	11	6	1	0	0	1	3	0	1	2	0	200
	Veh	JP	Odor	PCB	Hg	H2O	BBP	Tank	FS	OHM	NHM	
totals by type	89	39	17	17	12	12	12	6	5	25	7	

Legend			
Veh	Vehicle Spill/Release		
JP	Jet Fuel		
Odor	Odor of Gas, Smoke		
PCB	PCB oil or light ballast		
Hg	Mercury		
H2O	Water, grey water, waste water		