

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEM
OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30

1. REQUISITION NUMBER
4200303430

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2. CONTRACT NO.
NNS10AA47C

3. AWARD/EFFECTIVE DATE

4. ORDER NUMBER

5. SOLICITATION NUMBER
NNS09ZDA006R

6. SOLICITATION ISSUE DATE
10/01/2009

7. FOR SOLICITATION INFORMATION CALL: 

a. NAME
MARVIN HORNE

b. TELEPHONE NUMBER (No collect calls)
228-688-3528

8. OFFER DUE DATE/LOCAL TIME
11/02/2009 1530 LT

9. ISSUED BY

CODE **SSC**

NASA/Stennis Space Center
Office of Procurement
Building 1100 Room 251H
Stennis Space Center MS 39529-6000

10. THIS ACQUISITION IS

UNRESTRICTED OR SET ASIDE: 100.00% FOR:

SMALL BUSINESS

EMERGING SMALL BUSINESS

NAICS: 541380

HUBZONE SMALL BUSINESS

Sole Source

SIZE STANDARD:
\$12.0

SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS

8(A)

11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED
 SEE SCHEDULE

12. DISCOUNT TERMS

13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)

13b. RATING
DO-C9

14. METHOD OF SOLICITATION
 RFQ IFB RFP

15. DELIVER TO

CODE

NASA/Stennis Space Center
Stennis Space Center MS 39529-6000

16. ADMINISTERED BY

CODE **SSC**

NASA/Stennis Space Center
Office of Procurement
Building 1100 Room 251H
Stennis Space Center MS 39529-6000

17a. CONTRACTOR/OFFEROR

CODE

5SCY8

FACILITY CODE

18a. PAYMENT WILL BE MADE BY

CODE **NSSC**

A² Research JV
1021 Old Monrovia Road
Huntsville, AL 35806

NASA/SHARED SERVICES CENTER
FINANCIAL MANAGEMENT DIVISION (FMD)
ACCOUNTS PAYABLE
BLDG 1111, C ROAD
NSSC-ACCOUNTSPAYABLE@NASA.GOV
STENNIS SPACE CENTER MS 39529-6000

TELEPHONE NO. 256-704-2305 x. 201

17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER

18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED SEE ADDENDUM

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
001	Phase-In Price. Perform services in accordance with page 5 of the RFP. Period of Performance (POP) April 1, 2010 thru April 30, 2010.	1	EA	\$0.00	\$0.00
002	NASA Direct laboratory Services. Perform all services in accordance with Performance Work Statement (attachment 1). POP May 1, 2010 - April 30, 2011. 12EA = 12 months. (total potential period of performance is 5 years)	12	EA	(b)(4)	(b)(4)

(Use Reverse and/or Attach Additional Sheets as Necessary)

25. ACCOUNTING AND APPROPRIATION DATA

26. TOTAL AWARD AMOUNT (For Govt. Use Only)
\$4,999,504.46

27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52 212-1, 52 212-4, FAR 52 212-3 AND 52 212-5 ARE ATTACHED. ADDEND ARE ARE NOT ATTACHED.
 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52 212-4. FAR 52 212-5 IS ATTACHED. ADDENDA ARE ARE NOT ATTACHED.

28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN **3** COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.

29. AWARD OF CONTRACT REF **Final Proposal** OFFER DATED **02/12/2010**. YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:

30a. SIGNATURE OF OFFEROR/CONTRACTOR



31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)



30b. NAME AND TITLE OF SIGNER (Type or print)
Autumn Sellars, President

30c. DATE SIGNED
2/12/10

31b. NAME OF CONTRACTING OFFICER (Type or print)
ROBERT HARRIS

31c. DATE SIGNED
3/27/10

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION IS NOT USABLE

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
003	Travel for NASA Direct Work. Refer to FAR 52.212-4, Paragraph A of the Addendum for detailed information. Travel expenses under this CLIN are for NASA direct work (CLIN 002). This is a Not to Exceed (NTE) Amount of (b)(4) POP May 1, 2010 - April 30, 2011.	1	NTE		(b)(4)
004	Demand Work; This work covers the laboratory requirement for other Government Agencies, and/or Contractors Located at Stennis Space Center. When these requirements arise the contractor will be required to provide a proposal to the Government for each request made under this Not to Exceed Line item using the loaded rates provided in Attachment 6 of this solicitation. The demand work has historically been estimated at 31% of contract value. Offeror shall calculate 31% of yearly contract value for dollar amount. This CLIN is an estimated level of effort and is not guaranteed. See page 7 for more information. POP May 1, 2010 - April 30, 2011.	1	NTE		(b)(4)
005	Option 1, NASA Direct laboratory Services. Perform all services in accordance with Performance Work Statement (attachment 1). POP Continued ...				

32a. QUANTITY IN COLUMN 21 HAS BEEN

ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS

RECEIVED INSPECTED NOTED:

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
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32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE 32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE
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33. SHIP NUMBER <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	37. CHECK NUMBER
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38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY
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41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT	42a. RECEIVED BY (Print)
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER	41c. DATE
	42b. RECEIVED AT (Location)
	42c. DATE REC'D (YY/MM/DD)
	42d. TOTAL CONTAINERS

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
NNS10AA47C

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	May 1, 2011 - April 30, 2012. 12EA = 12 months. Amount: (b)(4) (Option Line Item)				
006	Option 1 Travel for NASA Direct Work. Refer to FAR 52.212-4, Paragraph A of the Addendum for detailed information. Travel expenses under this CLIN are for NASA direct work (CLIN 005). This is a Not to Exceed (NTE) Amount of (b)(4) POP May 1, 2011 - April 30, 2012. Amount: (b)(4) (Option Line Item)				
007	Option 1 Demand Work; This work covers the laboratory requirement for other Government Agencies, and/or Contractors Located at Stennis Space Center. When these requirements arise the contractor will be required to provide a proposal to the Government for each request made under this Not to Exceed Line item using the loaded rates provided in Attachment 6 of this solicitation. The demand work has historically been estimated at 31% of contract value. Offeror shall calculate 31% of yearly contract value for dollar amount. This CLIN is an estimated level of effort and is not guaranteed. See page 7 for more information. POP May 1, 2011 - April 30, 2012. Amount: (b)(4) (Option Line Item)				
008	Option 2, NASA Direct laboratory Services. Perform all services in accordance with Performance Work Statement (attachment 1). POP May 1, 2012 - April 30, 2015. 36EA = 36 months. Amount: (b)(4) (Option Line Item)				
009	Option 2 Travel for NASA Direct Work. Refer to FAR 52.212-4, Paragraph A of the Addendum for detailed information. Travel expenses under this CLIN are for NASA direct work (CLIN 008). This is a Not to Exceed (NTE) Amount of (b)(4) POP May 1, 2012 - April 30, 2015. Amount: (b)(4) (Option Line Item)				
Continued ...					

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
NNS10AA47C

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
010	<p>Option 2 Demand Work; This work covers the laboratory requirement for other Government Agencies, and/or Contractors Located at Stennis Space Center. When these requirements arise the contractor will be required to provide a proposal to the Government for each request made under this Not to Exceed Line item using the loaded rates provided in Attachment 6 of this solicitation. The demand work has historically been estimated at 31% of contract value. Offeror shall calculate 31% of yearly contract value for dollar amount. This CLIN is an estimated level of effort and is not guaranteed. See page 7 for more information. POP May 1, 2012 - April 30, 2015.</p>				
	<p>Amount: (b)(4) Option Line Item)</p>				
011	<p>Phase Out Price. Perform services in accordance with page 6 of the RFP. Contractor is to provide a price for phase out activities. Phase out may be up to 90 days prior to contract expiration.</p>				
	<p>Amount: \$0.00 (Option Line Item)</p>				

SUPPLIES AND/OR SERVICES TO BE FURNISHED

The Contractor, acting as an independent contractor and not as an agent of the government, shall furnish all resources not identified as government furnished to provide laboratory services in accordance with Attachment 1, Performance Work Statement (PWS). Government furnished equipment and property identified at Attachment 3.

PHASE-IN AND PHASE OUT

(a) Contractor phase-in:

- (1) The services provided by this contract are vital to the Government's overall effort. Therefore, continuity of these services must be performed at a consistently high level without disruption. To this end, the contractor shall conduct an orderly phase-in of other activities prior to assumption of operational responsibility for the effort described in the PWS.
- (2) Phase In commences on the effective date of contract award and ends on Feb 28 2010. Temporary office space and telephone will be provided by the Government during phase-in period. During this time, the Contractor shall not be responsible for performance of the effort described in the PWS. It is understood that during phase-in, the predecessor contractor will be performing the work described in the PWS.
- (3) On April 1, 2010, the Contractor shall assume full operational responsibility for the effort described in the PWS.
- (4) During phase-in the Contractor shall:
 - (i) Participate in meetings with the predecessor contractor to identify and discuss problems or areas requiring attention during the phase-in period; and
 - (ii) Perform all activities necessary to ensure effective transfer of all efforts from the predecessor Contractor and ensure readiness to assume full contract performance. As part of the phase-in activities, the Contractor shall provide the following:
 - (A) Badge Employee and Remove IT User Listing;
 - (B) Position Risk Designation for Non-NASA employees; and
 - (C) Qualified staff available, badge (in accordance with the personal Identity Verification (PIV) Procedures provided in Attachment 7), and ready to assume performance.

(b) Contractor phase-out:

(1) Prior to contract completion, a successor Contractor may be selected to perform the work requirements covered in the PWS. The incumbent Contractor shall conduct an orderly phase-out of contract activities prior to completion of this contract and assumption of responsibility for the effort described in the PWS by the successor Contractor. The Contractor shall remain responsible for the effort covered by the PWS during phase-out activities.

(2) Upon written notice by the Contracting Officer, the Contractor shall conduct phase-out activities for up to 90 calendar days in accordance with FAR Clause 52.237-3, Continuity of Service.

NASA DIRECT WORK DESCRIPTION

This work covers the laboratory requirement for NASA organizations initiated at Stennis Space Center. Work requirements are identified to the contractor through Stennis Work Request System (SWR.) The contractor will not be required to provide an estimate for any labor, overhead, ODCs (excluding travel), G&A, profit since all SWRs issued under the NASA Direct Work CLIN are covered by the fixed monthly amount. Any required travel will be estimated on the SWR to the benefiter/requester/approver and will require approval in advance of any travel. Any additional material/supplies/equipment not identified as Government-furnished that is necessary to perform the SWR shall be the responsibility of the contractor.

Except calibration standards that must go to primary laboratory such as NIST and historical off-site repairs, all work covered by the PWS shall be completed by the contractor using onsite Government provided equipment and facilities. Exceptions to this requirement shall be presented to the COTR with justification for approval.

The contractor is responsible for all materials and off-site repairs needed to perform all services in accordance with the PWS. A historical material and off-site repairs list has been provided for reference (PWS attachment 1, Appendix B & C); this list may or may not be all inclusive. The contractor shall coordinate all Material Safety Data Sheets (MSDS) with the Facility Operating and Services Contractor (FOSC). On the first day of the contract the contractor will be provided the current stockpile of materials, these materials would have been inventoried and the contractor is required to return the same level and types of materials back to the Government at contract expiration or termination (see DR MA05). The contractor is not required to provide replacement parts for the Government furnished property identified in attachment 3 i.e. computer equipment, key boards, computer batteries etc. The contractor is responsible for incidentals i.e. paper, toner etc. Computer related items and repairs for Government furnished property (Identified in attachment 3) will be provided via the Material Request system.

The Material Request (MR) system is an electronic method authorized for use by the contractor to order replacement parts, supplies, and materials required to maintain or repair GFE identified in attachment 3. The requestor (lab Contractor) is responsible for coordinating with the COTR and to

locate and determine the specifications of the materials or services requested and complete SSC form 21D for approval and processing.

CLIN 002, 005, & 008 SSC NASA Direct Work

- Stennis Work Requests (SWR) will be initiated by benefiter/requestors/approvers. The contractor will distribute the costs of the firm-fixed price CLIN based upon a percentage of funding liability associated with the NASA direct organization. This percentage distribution will be determined in coordination with Government. Cost reporting required by Stennis Financial Management shall be accomplished in accordance with DRD MF01.
- Stennis Work Requests (SWR) that requires travel will be estimated and approved in advance. Cost reporting of travel required by Stennis Financial Management shall be accomplished in accordance with DRD MF01.
- Within 15 days after completion of a travel SWR, the contractor shall submit the following information directly, in writing, to the SWR benefiter/requestor/authorizer with a copy to the Contracting Officer:
 - (1) The identification number of the SWR
 - (2) The total amount of the travel with a breakdown of airline, hotel, meals, ground transportation, etc.
 - (3) In the case of a cost under run, the excess amount to be reduced and returned to the SWR benefiter. The SWR requestor/authorizer will reduce the SWR to the actual travel cost incurred.

DEMAND WORK DESCRIPTION

This work covers the laboratory requirement for other Government Agencies, and/or Contractors located at Stennis Space Center. When these requirements arise, they are identified to the contractor through Stennis Work Request System (SWR.) The contractor will be required to provide an estimate for each SWR made under this Not to Exceed Line item using the loaded rates provided in Attachment 6. **Loaded Rate** is defined as the direct hourly rate along with appropriate load factors such as overhead, fringe, and general & administrative (G&A) costs inclusive of profit. An overhead cost and material usage cost (for materials provided from NASA direct work) shall be established and maintained by the contractor for add-ons to the SWR estimate for all demand work. Demand work SWR's that requires materials that are not provided with-in the NASA direct work shall be billed directly to the SWR requestor/authorizer (Reference DR MF07). The add-ons shall not be included in the loaded rate.

CLIN 004, 007, & 010 SSC Tenant Demand Work

\$NTE 31% of CLIN 002, 005, & 008 Price

- Stennis Work Requests (SWR) shall establish an anticipated level of effort (projected labor hours) for each SWR. The ceiling price shall be Contractor projected hours multiplied by the appropriate hourly rates prescribed in the Pricing Schedule plus the Management and Technical overhead costs add-ons.
- The Contractor may use any combination of hours of labor categories listed in the Pricing Schedule in any single SWR, if necessary, to perform that SWR within the limits expressed below. Labor categories not shown may not be used without a contract modification.

- The Contractor shall notify the Contracting Officer immediately whenever it has reason to believe that the price required to perform a particular SWR will be greater than the not-to-exceed estimate established in the SWR. As part of the notification, the Contractor shall provide the Contracting Officer with a revised estimate of the price required to perform the SWR including a breakdown of labor categories, hours and travel. Any such upward adjustment shall apply only after the SWR is amended by the SWR requestor/authorizer and approved by the Contracting Officer.
- Within 30 days after completion of the SWR, the contractor shall submit the following information directly, in writing, to the SWR requestor/authorizer with a copy to the Contracting Officer:
 - (1) The identification number of the SWR
 - (2) The total number of labor hours expended with a breakdown of labor hours for each classification listed in the SWR utilizing full cost accounting.
 - (3) The total labor price incurred under SWR.
 - (4) In the case of a cost under run, the excess amount to be reduced and returned to the SWR benefiter. The SWR requestor/authorizer will reduce the SWR to the actuals.
- Pricing Schedule (attachment 6) shall be incorporated into the contract.
- CLIN0004, 007, &010 are not guaranteed.
- 12 each on the SF1449 refers to the fixed monthly rate.

NOTE: To prevent the augmentation of demand customers, the contractor shall be required to establish and maintain an appropriate adder (add-on charge) to be applied to each SWR written against the demand work (CLIN 004, 007 & 010). The adder shall be determined after contract award. The NASA direct work (CLIN 002, 005 & 008) takes into account overhead and materials for demand work (CLIN 004, 007 & 010). The demand work adder and material charge will be credited back to the NASA direct work thus lowering the price for the NASA direct work. The Demand CLIN consists of approximately 25 customers; upon award of the contract a detailed list will be provided. The contractor is incentivized to create new opportunities for demand work (Reference DR MF07 for a graphical description).

1852.216-78 FIRM FIXED PRICE (DEC 1988)

The firm fixed price shall be established prior to award and it will be based upon the overall price proposed for CLIN 0001, 0002, 0003, and 0004. The remaining CLINs are options which the Government may or may not exercise IAW option clause 52.217-9.

(End of Clause)

52.216-1 CONTRACT TYPE (Apr 1984)

This contract is a Firm fixed price contract for commercial services.

(End of Clause)

Invoices: The Contractor shall submit invoices to the following address:

NASA Shared Services Center (NSSC)
Financial Management Division (FMD) – Accounts Payable
Bldg 1111, C. Road
Stennis Space Center, MS 39529
Email: NSSC-AccountsPayable@nasa.gov
Fax: 866-209-5415

Period of Performance: The phase-in period of performance shall be effective April 1, 2010 through April 30, 2010. The basic period of performance of this contract shall be May 1, 2010 through April 30, 2011.

b. In the event the Government elects to exercise its option(s) pursuant to the terms of this contract, the period of performance for each option shall be as set forth below:

Option I	May 1, 2011 – April 30, 2012
Option II	May 1, 2012 – April 30, 2015

CONTRACT CLAUSES

52.212-4 -- CONTRACT TERMS AND CONDITIONS – COMMERCIAL ITEMS (Mar 2009)

Paragraph (a) thru (t) are incorporated by reference, the following paragraphs (A) thru (K) are incorporated as an ADDENDA FAR 52.212-4:

ADDENDUM TO FAR 52.212-4, CONTRACT TERMS AND CONDITIONS - COMMERCIAL ITEMS

(A) TRAVEL

All travel shall be approved by the Contracting Officer 72 hours prior to the planned travel. When travel is necessary within 72 hours the contractor shall notify the Contracting Officer as soon as the travel has been identified. Travel expenses for NASA direct work (CLIN 003, 006, & 009) will be negotiated with the contractor on a reimbursable basis. The Contractor shall submit travel receipts and amount claimed with-in 15 days of returning. The contractor will not receive overhead or profit on travel cost. Travel will be reimbursed at cost based on the established federal travel regulations. The federal travel regulations rates for per diem, mileage reimbursement, lodging, and flights will establish the reasonable rates. The Contractor is responsible for advance notification to the Contracting Officer if these rates cannot be obtained. Demand Work (CLIN 004, 007, & 010) travel will be established in the individual SWRs. The GSA website is below for detailed rate information.

http://www.gsa.gov/Portal/gsa/ep/contentView.do?contentType=GSA_OVERVIEW&contentId=1035

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(B) VARIATION IN ESTIMATED QUANTITY (this clause affects the NASA direct work only)

If the quantity of the historical baseline in PWS attachment 1, appendix A of (historical work data) total quantities for each functional area in this contract and the actual quantities per functional area of the total functional quantities varies more than 15 percent above or below the baseline data in a year, an equitable adjustment in the contract price shall be made upon demand of either party. The equitable adjustment shall be based upon any increase or decrease in costs due solely to the variation above 115 percent or below 85 percent of the baseline historical work data (attachment 1, appendix A). This applies to the NASA direct work only.

(C) REFERENCE FORMS AND/OR PROCEDURES AND GUIDELINES

Any forms or procedures and guidelines referenced in Hazardous Material & Waste Management or Environmental Management of this document shall be the latest version of such form or instruction, and may be obtained from the following website (TechDoc):

<https://ssctdsearch.ssc.nasa.gov/>

(D) HAZARDOUS MATERIAL AND HAZARDOUS WASTE MANAGEMENT

During the performance of this contract, the Contractor or any of its Subcontractors may be required to requisition, handle and manage hazardous materials in support of specific projects. The Contractor may also be collecting waste generated by its activities for ultimate disposal by NASA. In the performance of these activities, the Contractor shall abide by SCWI-8500-0004-ENV, Hazardous Material, Hazardous Waste, and Solid Waste Plan; SCWI-8500-0020-ENV, Environmental Integrated Contingency Plan, SPR 8500.1, Environmental Management System Procedural Requirements and SPR 8500.2, Environmental Operations and Implementation Program and SCWI-8500-0017-ENV, Pollution Prevention Plan.

(E) ENVIRONMENTAL MANAGEMENT

During performance of this contract, the Contractor or any of its Subcontractors may be required to design projects or perform projects that will potentially impact the environment. To guide the Contractor in what needs to be considered in project designs and planning, the Contractor shall reference the SSC Environmental Resources Document (ERD) (SCWI-8500-0026-ENV). In accordance with the National Environmental Policy Act (NEPA), all projects are required to go through an environmental review process. The Contractor must complete a Preliminary Environmental Survey form (Form # 696M) that is found in the ERD or preferably electronically from the Tech Doc System for projects that have the potential to adversely impact the environment. The NASA Environmental Management Staff will determine if the project will require evaluation under NEPA and what environmental requirements will be needed prior to proceeding with the project.

(F) SECURITY CONTROLS

Security Requirements. The Contractor shall require each employee engaged on the work site to display Government furnished identification badges and special access badges at all times. The

Contractor shall upon termination of an employee, immediately deliver badges and/or passes issued to the employee to the Security Officer.

Access to Secure Areas. Portions of the work under the contract are performed in secure areas, needing specific access requirements. These secure controlled/restricted areas are normally surrounded by fencing and have an entrance gate monitored by a guard or monitoring device. Access into such areas is categorized into "escorted" and "unescorted" access. All persons requiring unescorted access to a secure area shall be the subject of a favorable security investigation (security clearance) required for access to that area or, in most cases, will be escorted by an approved escort official. The Contractor is responsible for providing escort services for any of his employees and/or any subcontractor employees who are not eligible for unescorted access. Personnel requiring access to areas containing classified information or material shall have the appropriate security clearance as approved by Defense Investigative Security Clearance Office.

Interfaces. The Contractor shall comply with controlled/restricted area procedures and instructions, to include proper security clearances. Contractor personnel working in controlled/restricted areas, such as the test complex area, and computer rooms, may be required to sign in and out, state the nature of business at the entrance desk, and display a unique user provided badge. All work in controlled/restricted areas shall be coordinated with the respective unit or organization in accordance with local agency security procedures.

IT Security. The Contractor shall manage the security, operation and support of IT resources in accordance with NPR 2810.1 and in accordance with all applicable SSC/MSFC IT security guidelines and policies. This includes contract and system IT security plans, risk assessments, access policies, contingency planning, personnel screening, awareness, and training. NASA may audit the Contractor's IT security planning efforts on an annual basis or as required to ensure compliance. The Contractor shall assist the Government in maintaining a level of security that minimizes the threat of unauthorized access to IT resources and the destruction of Government data. The Contractor shall provide reports, plans, guidance and support to meet the security requirements for IT at SSC/MSFC as required by the National Security Act and NASA Headquarters. Specific documents guiding the IT Security functions include: Office of Management and Budget Circular A-130, NPD 2810.1, NPR 2810.1A.

(G) SURVEILLANCE METHODS

The Government may use a wide variety of surveillance methods to evaluate the Contractor's performance. The Performance Requirements Summary is attachment 4 to this DRFP. The methods of surveillance that may be used, including but not limited to, are:

1. Record Review (RR). Plans, Reports and Schedules submitted by the contractor will be reviewed for content to confirm that contractual requirements are planned, scheduled, and reported as properly completed. The contractor is also responsible for accurately reporting work that was either rescheduled or not completed.
2. Planned Inspections (PI). The Government performance monitors establish predetermined plans for inspecting all or part of the work. Determination of a sample size is subjective. The planned

approach of inspecting for performance may or may not be shared with the contractor. All observed deficiencies or commendable areas are recorded and appropriate performance input provided.

3. **Unplanned Inspection (UPI).** This method is an unplanned inspection, usually carried out in conjunction with inspections of other Contract Requirements or in an impromptu fashion. Unscheduled inspections may be a supplement to other methods of surveillance or could cover a contract requirement if it is a relatively non-critical requirement and does not require inspection immediately upon completion. Observed deficiencies and commendable areas will be recorded and appropriate performance input provided.
4. **Validated Customer Complaints (VCC).** This method consists of customers observing deficiencies in the services they expect to receive and reporting these deficiencies to the Government performance monitor using a predetermined procedure. All reported potential deficiencies will be examined at the site by the performance monitor within a reasonable time (depends on the nature of service) in order to determine whether or not the reported deficiency is valid. All validated deficiencies are recorded.

(H) DOCUMENTATION REQUIREMENTS

- a. **Data Requirements:** Requirements for technical or management information are imposed on the Contractor through the use of the Data Requirements Documents (DRD), included as Attachment 2. The DRD describes, defines and specifies the information required and lists the technical or management information to be produced and/or delivered as required by NASA/SSC to administer the Contract.
- b. **Contractor Data Management:** The Contractor shall establish a system of management or utilize the Contractor's existing data management function for the data called for in the Performance Work Statement. The data management system shall be capable of providing appropriate internal procedures for the control of collection, preparation, publication, quality, assessment, distribution, and maintenance of authorized data. Such control shall apply to data acquired from subcontractors by the Contractor.
- c. **NASA Contract Deliverable System:** Contract data deliverables, identified in Attachment 2 shall be submitted to NASA using the NASA Acquisition Internet Service (NAIS) Contract Deliverables System (CDS). DRD's that state electronic distribution in the DRD's Distribution List, if the system is unavailable or cannot be used for submission of a particular deliverable due to CDS system or maintenance problems, the Contractor shall notify the Contracting Officer. The Contractor shall use the hard-copy distribution for standard methods of delivery cited in the Distribution List and Format Instructions of the DRD, and shall upload a cover letter, in conjunction with uploading the DRD, into the CDS after the hard-copy delivery is complete and when the system becomes available. The cover letter shall explain the rationale for not uploading a particular deliverable into the CDS on the due date. If the system cannot be used for submission of a particular deliverable due to Privacy Act or other considerations, the Contractor shall use the hard-copy distribution for standard methods of delivery cited in the Distribution List and Format Instructions of the applicable DRD and shall upload a cover letter into the CDS on the date of hard-copy delivery to notify CDS users that the DRD has been

delivered. If a DRD requires a review and update/revision if necessary, after the Contractor reviews the DRD, if there are no changes to submit, the Contractor will upload a cover letter into the CDS stating the DRD was reviewed on the specific date and no revisions were required. In the event a DRD delivery date falls on a weekend or Government Holiday, the DRD will become due on the next business day.

d. Data Reviews: The Contractor, upon request, shall participate in periodic reviews of Contract data requirements for maintaining current Contract DRD. This assistance shall include identification of additional data items and recommendations for deletions considered appropriate in consonance with test and technical services required at SSC.

e. Changes in Distribution: When changes to the original distribution requirements are required by the Contracting Officer, the Contractor shall act upon such changes upon receipt of an approved Request for Data or upon revision to the distribution part of the DRL provided such changes do not incur additional costs. In the event that additional cost is involved, an equitable adjustment shall be negotiated.

f. End of Contract Requirements: Not later than 15 days before the end of the contract period of performance, the Contractor will submit a final updated version of all DRD's, except for DRD's submitted on a monthly basis or on an "As Required" basis, unless otherwise directed by the Contracting Officer.

(I) HANDLING OF SENSITIVE DATA

(a) It is anticipated that in the performance of this contract, the contractor may have access to and use NASA's sensitive internal budget, accounting, financial, or test results data. The contractor agrees to use, copy, or disclose such data, or any other data agreeable within these categories, only for contract purposes, and to make no other use or disclosures of such data with out written permission of the Contracting Officer.

(b) To the extent that the work under this contract requires access to proprietary, business confidential, or financial data of other companies, and as long as this data remains proprietary or confidential, the Contractor shall protect this data from unauthorized use and disclosure and agrees not to use it to compete with those other companies.

(c) All employees assigned under this contract shall submit a signed Non-Disclosure Agreement.

(d) The Contractor's Conflict of Interest Avoidance Plan shall be incorporated into the resultant contract.

(J) OBSERVANCE OF LAWS AND REGULATIONS

a. The Contractor shall procure and keep effective necessary business and professional permits and licenses required in performance of the work. Generally, NASA will execute the necessary environmental permits.

b. Inasmuch as various departments and agencies of the Government, several Contractors and other tenants jointly occupy the John C. Stennis Space Center and are confronted with certain common conditions and problems resulting from this co-occupancy, certain uniform policies regulations and procedures will be issued, as required, by the Government (NASA/SSC), and will be applicable to all personnel working at SSC. The Contractor shall adhere to these policies and procedures insofar as such policies and procedures are in conformity with the terms of this Contract.

c. All employees of the Contractor assigned to perform the work under this Contract shall be under the control of the Contractor during the performance of such assignment. The Contractor shall be responsible for satisfactory standards of employee competency, conduct and integrity and shall be responsible for taking such disciplinary action with respect to its employees as may be necessary.

d. The above provisions of this Section shall be made equally applicable by the Contractor to employees other than those of the Contractor to the extent that they may be assigned work under this Contract notwithstanding the basis of the assignment, e.g., subcontract.

(K) SAFETY AND HEALTH PLAN

The Contractor's Safety and Health Plan, that shall be submitted with proposal in accordance with Data Requirement Document SA01, will be incorporated into the resulting contract. The Contractor shall provide for safety inspection and acceptance of work imposed by the Performance Work Statement. Safety inspection and corrective action reports shall be made available to the Contracting Officer upon request. The Contractor shall report and investigate all incidents, mishaps and close calls in accordance with applicable NASA policies and procedures.

52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS -- COMMERCIAL ITEMS (Sep 2009)

Contract Terms and Conditions Required to Implement Statutes or Executive Orders -- Commercial Items (Sep 2009)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

(1) 52.222-50, Combating Trafficking in Persons (FEB 2009) (22 U.S.C. 7104(g)).

(2) 52.233-3, Protest After Award (AUG 1996) (31 U.S.C. 3553).

(3) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Pub. L. 108-77, 108-78).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the contracting officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

(1) 52.203-6, Restrictions on Subcontractor Sales to the Government (Sep 2006), with Alternate I (Oct 1995)(41 U.S.C. 253g and 10 U.S.C. 2402).

(2) 52.203-13, Contractor Code of Business Ethics and Conduct (Dec 2008) (Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 note)).

(3) 52.203-15, Whistleblower Protections under the American Recovery and Reinvestment Act of 2009 (Mar 2009) (Section 1553 of Pub L. 111-5) (Applies to contracts funded by the American Recovery and Reinvestment Act of 2009).

(4) 52.204-11, American Recovery and Reinvestment Act—Reporting Requirements (Mar 2009) (Pub. L. 111-5).

(5) 52.219-3, Notice of Total HUBZone Set-Aside (Jan 1999)(15 U.S.C. 657a).

(6) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Jul 2005) (if the offeror elects to waive the preference, it shall so indicate in its offer)(15 U.S.C. 657a).

(7) [Reserved]

(8) (i) 52.219-6, Notice of Total Small Business Set-Aside (June 2003) (15 U.S.C. 644).

(ii) Alternate I (Oct 1995) of 52.219-6.

(iii) Alternate II (Mar 2004) of 52.219-6.

(9) (i) 52.219-7, Notice of Partial Small Business Set-Aside (June 2003)(15 U.S.C. 644).

(ii) Alternate I (Oct 1995) of 52.219-7.

(iii) Alternate II (Mar 2004) of 52.219-7.

(10) 52.219-8, Utilization of Small Business Concerns (May 2004) (15 U.S.C. 637(d)(2) and (3)).

(11) (i) 52.219-9, Small Business Subcontracting Plan (Apr 2008)(15 U.S.C. 637 (d)(4).)

(ii) Alternate I (Oct 2001) of 52.219-9.

(iii) Alternate II (Oct 2001) of 52.219-9.

X (12) 52.219-14, Limitations on Subcontracting (Dec 1996)(15 U.S.C. 637(a)(14)).

 (13) 52.219-16, Liquidated Damages—Subcontracting Plan (Jan 1999)(15 U.S.C. 637(d)(4)(F)(i)).

 (14) (i) 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (Oct 2008)(10 U.S.C. 2323) (if the offeror elects to waive the adjustment, it shall so indicate in its offer).

 (ii) Alternate I (June 2003) of 52.219-23.

 (15) 52.219-25, Small Disadvantaged Business Participation Program—Disadvantaged Status and Reporting (Apr 2008)(Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).

 (16) 52.219-26, Small Disadvantaged Business Participation Program—Incentive Subcontracting (Oct 2000) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).

 (17) 52.219-27, Notice of Total Service-Disabled Veteran-Owned Small Business Set-Aside (May 2004) (15 U.S.C. 657 f).

 X (18) 52.219-28, Post Award Small Business Program Rerepresentation (Apr 2009) (15 U.S.C. 632(a)(2)).

 X (19) 52.222-3, Convict Labor (June 2003)(E.O. 11755).

 X (20) 52.222-19, Child Labor—Cooperation with Authorities and Remedies (Aug 2009) (E.O. 13126).

 X (21) 52.222-21, Prohibition of Segregated Facilities (Feb 1999).

 X (22) 52.222-26, Equal Opportunity (Mar 2007)(E.O. 11246).

 X (23) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Sep 2006)(38 U.S.C. 4212).

 X (24) 52.222-36, Affirmative Action for Workers with Disabilities (Jun 1998)(29 U.S.C. 793).

 X (25) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Sep 2006)(38 U.S.C. 4212).

X (26) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (Dec 2004) (E.O. 13201).

 X (27) 52.222-54, Employment Eligibility Verification (Jan 2009). (Executive Order 12989). (Not applicable to the acquisition of commercially available off-the-shelf items or certain other types of commercial items as prescribed in 22.1803.)

 X (28) (i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Items (May 2008)(42 U.S.C. 6962(c)(3)(A)(ii)). (Not applicable to the acquisition of commercially available off-the-shelf items.)

 (ii) Alternate I (May 2008) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)). (Not applicable to the acquisition of commercially available off-the-shelf items.)

 (29) 52.223-15, Energy Efficiency in Energy-Consuming Products (Dec 2007) (42 U.S.C. 8259b).

 (30) (i) 52.223-16, IEEE 1680 Standard for the Environmental Assessment of Personal Computer Products (Dec 2007) (E.O. 13423).

 (ii) Alternate I (Dec 2007) of 52.223-16.

 (31) 52.225-1, Buy American Act--Supplies (Feb 2009)(41 U.S.C. 10a-10d).

 (32) (i) 52.225-3, Buy American Act --Free Trade Agreements -- Israeli Trade Act (Jun 2009) (41 U.S.C. 10a-10d, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, 19 U.S.C. 3805 note, Pub. L. 108-77, 108-78, 108-286, 108-301, 109-53, 109-169, 109-283, and 110-138).

 (ii) Alternate I (Jan 2004) of 52.225-3.

 (iii) Alternate II (Jan 2004) of 52.225-3.

 (33) 52.225-5, Trade Agreements (Aug 2009) (19 U.S.C. 2501, *et seq.*, 19 U.S.C. 3301 note).

 X (34) 52.225-13, Restrictions on Certain Foreign Purchases (Jun 2008) (E.O.'s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).

 (35) 52.226-4, Notice of Disaster or Emergency Area Set-Aside (Nov 2007) (42 U.S.C. 5150).

(36) 52.226-5, Restrictions on Subcontracting Outside Disaster or Emergency Area (Nov 2007) (42 U.S.C. 5150).

 (37) 52.232-29, Terms for Financing of Purchases of Commercial Items (Feb 2002) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

 (38) 52.232.30, Installment Payments for Commercial Items (Oct 1995)(41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

 X (39) 52.232-33, Payment by Electronic Funds Transfer—Central Contractor Registration (Oct. 2003)(31 U.S.C. 3332).

 (40) 52.232-34, Payment by Electronic Funds Transfer—Other Than Central Contractor Registration (May 1999)(31 U.S.C. 3332).

 (41) 52.232-36, Payment by Third Party (May 1999)(31 U.S.C. 3332).

 (42) 52.239-1, Privacy or Security Safeguards (Aug 1996)(5 U.S.C. 552a).

 (43) (i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006)(46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631).

 (ii) Alternate I (Apr 2003) of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or executive orders applicable to acquisitions of commercial items:

 X (1) 52.222-41, Service Contract Act of 1965 (Nov 2007)(41 U.S.C. 351, *et seq.*).

 X (2) 52.222-42, Statement of Equivalent Rates for Federal Hires (May 1989)(29 U.S.C. 206 and 41 U.S.C. 351, *et seq.*).

 X (3) 52.222-43, Fair Labor Standards Act and Service Contract Act -- Price Adjustment (Multiple Year and Option Contracts) (Sep 2009) (29 U.S.C.206 and 41 U.S.C. 351, *et seq.*).

 (4) 52.222-44, Fair Labor Standards Act and Service Contract Act -- Price Adjustment (Sep 2009)(29 U.S.C. 206 and 41 U.S.C. 351, *et seq.*).

___ (5) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (Nov 2007) (41 U.S.C. 351, et seq.).

___ (6) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements (Feb 2009) (41 U.S.C. 351, et seq.).

___ (7) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (Mar 2009) (Pub. L. 110-247).

___ (8) 52.237-11, Accepting and Dispensing of \$1 Coin (Sep 2008)(31 U.S.C. 5112(p)(1)).

(d) *Comptroller General Examination of Record.* The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records -- Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e)

(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c) and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in paragraphs (e)(1) of this paragraph in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause--

- (i) 52.203-13, Contractor Code of Business Ethics and Conduct (Dec 2008) (Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 note)).
- (ii) 52.219-8, Utilization of Small Business Concerns (May 2004)(15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$550,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (iii) [Reserved]
- (iv) 52.222-26, Equal Opportunity (Mar 2007)(E.O. 11246).
- (v) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Sep 2006)(38 U.S.C. 4212).
- (vi) 52.222-36, Affirmative Action for Workers with Disabilities (June 1998)(29 U.S.C. 793).
- (vii) 52.222-39, Notification of Employee rights Concerning Payment of Union Dues or Fees (Dec 2004) (E.O. 13201).
- (viii) 52.222-41, Service Contract Act of 1965, (Nov 2007), flow down required for all subcontracts subject to the Service Contract Act of 1965 (41 U.S.C. 351, et seq.)
- (ix) 52.222-50, Combating Trafficking in Persons (Feb 2009) (22 U.S.C. 7104(g)).
- ___ Alternate I (Aug 2007) of 52.222-50 (22 U.S.C. 7104(g)).
- (x) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (Nov 2007) (41 U.S.C. 351, et seq.)
- (xi) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements (Feb 2009) (41 U.S.C. 351, et seq.)
- (xii) 52.222-54, Employment Eligibility Verification (Jan 2009).
- (xiii) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (Mar 2009) (Pub. L. 110-247). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.

(xiv) 52.247-64, Preference for Privately-Owned U.S. Flag Commercial Vessels (Feb 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor may include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of Clause)

52.252-2 CLAUSES INCORPORATED BY REFERENCE (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 this/these address(es): Federal Acquisition Regulation (FAR) clauses: <http://www.acqnet.gov/far/>; NASA FAR Supplement (NFS) clauses: <http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

A. FEDERAL ACQUISITION REGULATION (48CFR CHAPTER 1) CLAUSES (<http://www.acqnet.gov/far/>):

The following FAR clauses are included by reference:

- 52.209-6 Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment. (Sep 2006)
- 52.216-18 Ordering (Oct 1995) Fill In: Applicable to CLINS 004, 007, and 010 ((a) the date in Block 31C of the SF 1449 through five (5) calendar years from the date in Block 31C of the SF 1449)
- 52.216-19 Order Limitations (Oct 1995) Fill In: ((a) SWR minimal \$15.00; (b)(1) CLIN 0004 NTE 31% of total contract value; (b)(2) Total Contract price of CLIN 0001, 0002 & 0003 plus all hours allotted to CLIN 0004; (b)(3) thirty (30) days; (d) thirty (30) days)
- 52.216-22 Indefinite Quantity (Oct 1995) Fill In: (d) five (5) calendar years after the date in Block 31C of the SF 1449 of the contract.)
- 52.217-8 Option To Extend Services (Nov 1999) (fill-in: any time before contract expiration)
- 52.217-9 Option To Extend The Term Of The Contract (Mar 2000)
Para. (a) fill-ins: 30 days) 60; Para. (c) fill-in: five (5) years
- 52.222-54 Employment Eligibility Verification (Jan 2009)
- 52.223-5 Pollution Prevention And Right-To-Know Information (Aug 2003)
- 52.223-10 Waste Reduction Program (Aug 2000)
- 52.223-13 Certification of Toxic Chemical Release Reporting (Aug 2003)
- 52.223-14 Toxic Chemical Release Reporting (Aug 2003)
- 52.227-14 Rights In Data--General (Dec 2007) (As Modified By NFS 1852.227-14)
- 52.228-5 Insurance -- Work on a Government Installation (Jan 1997)
- 52.232-17 Interest (Oct 2008)
- 52.232-23 Assignment Of Claims (Jan 1986)

- 52.237-2 Protection of Government Buildings, Equipment, and Vegetation (Apr 1984)
- 52.237-3 Continuity Of Services (Jan 1991)
- 52.245-1 Government Property (Jun 2007)
- 52.245-1 Alternate I (Jun 2007)
- 52.245-9 Use and Charges (Jun 2007)

52.219-17 - SECTION 8(A) AWARD (Dec 1996)

(a) By execution of a contract, the Small Business Administration (SBA) agrees to the following:

(1) To furnish the supplies or services set forth in the contract according to the specifications and the terms and conditions by subcontracting with the Offeror who has been determined an eligible concern pursuant to the provisions of section 8(a) of the Small Business Act, as amended (15 U.S.C. 637(a)).

(2) Except for novation agreements and advance payments, delegates to the NASA John C. Stennis Space Center the responsibility for administering the contract with complete authority to take any action on behalf of the Government under the terms and conditions of the contract; provided, however that the contracting agency shall give advance notice to the SBA before it issues a final notice terminating the right of the subcontractor to proceed with further performance, either in whole or in part, under the contract.

(3) That payments to be made under the contract will be made directly to the subcontractor by the contracting activity.

(4) To notify the NASA John C. Stennis Space Center Contracting Officer immediately upon notification by the subcontractor that the owner or owners upon whom 8(a) eligibility was based plan to relinquish ownership or control of the concern.

(5) That the subcontractor awarded a subcontract hereunder shall have the right of appeal from decisions of the cognizant Contracting Officer under the "Disputes" clause of the subcontract.

(b) The offeror/subcontractor agrees and acknowledges that it will, for and on behalf of the SBA, fulfill and perform all of the requirements of the contract.

(c) The offeror/subcontractor agrees that it will not subcontract the performance of any of the requirements of this subcontract to any lower tier subcontractor without the prior written approval of the SBA and the cognizant Contracting Officer of the NASA John C. Stennis Space Center.

(End of Clause)

52.219-18 - NOTIFICATION OF COMPETITION LIMITED TO ELIGIBLE 8(A) CONCERNS (June 2003) Alternate I (Apr 2005)

(a) Offers are solicited only from small business concerns expressly certified by the Small Business Administration (SBA) for participation in the SBA's 8(a) Program and which meet the following criteria at the time of submission of offer --

(1) The Offeror is in conformance with the 8(a) support limitation set forth in its approved business plan; and

(2) The Offeror is in conformance with the Business Activity Targets set forth in its approved business plan or any remedial action directed by the SBA.

(b) By submission of its offer, the Offeror represents that it meets all of the criteria set forth in paragraph (a) of this clause.

(c) Any award resulting from this solicitation will be made to the Small Business Administration, which will subcontract performance to the successful 8(a) offeror selected through the evaluation criteria set forth in this solicitation.

(d)

(1) Agreement. A small business concern submitting an offer in its own name shall furnish, in performing the contract, only end items manufactured or produced by small business concerns in the United States or its outlying areas. If this procurement is processed under simplified acquisition procedures and the total amount of this contract does not exceed \$25,000, a small business concern may furnish the product of any domestic firm. This paragraph does not apply in connection with construction or service contracts.

(2) The Contractor will notify the NASA John C. Stennis Space Center Contracting Officer in writing immediately upon entering an agreement (either oral or written) to transfer all or part of its stock or other ownership interest to any other party.

(3) The offeror's approved business plan is on the file and serviced by SBA Regions IV or VI.

(End of Clause)

FAR 52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 1989)

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR Part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

THIS STATEMENT IS FOR INFORMATION ONLY: IT IS NOT A WAGE DETERMINATION.

WAGE DETERMINATION 2005-2302 (Rev. 6) EQUIVALENT JOB CLASSIFICATION	Hourly Wage Rate that would be paid if federally employed
Metrology Technician III WG12	\$22.09
Quality Control Inspector WG13	\$22.67

Forestry Technician WG08	\$19.34
Computer Programmer IV GS11	\$27.03
Metrology Technician I WG10	\$20.75
General Clerk III GS03	\$11.74
Environmental Technician GS07	\$18.26
Laboratory Technician GS06	\$16.44
Survey Party Chief WG06	\$17.79
Computer Operator II GS05	\$14.74
Driver/Courier WG05	\$17.01
Secretary III GS06	\$16.44
Key Entry Operator GS02	\$10.76

Full-Time and Part-time Permanent Civilian Positions Benefits:

Retirement Pension:	21% of position's basic pay
Retiree Health	5.10%
Life Insurance	0.20%
Health Benefits	6.80%
Medicare	1.45%
Miscellaneous	1.70%

See the below link for detailed information about agency benefits:

<http://nasapeople.nasa.gov/employeebenefits/default.htm>

NOTE: The above statements do not represent a Department of Labor Minimum Wage Determination. Department of Labor Minimum Wage Determinations is located in Attachment 5.

(End of Clause)

B. NASA FEDERAL ACQUISITION REGULATION SUPPLEMENT (48CFR CHAPTER 18) CLAUSES (<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>)

The following NFS clauses are included by reference:

- 1852.215-84 Ombudsman (Oct 2003) Fill In: b. [Dr. Richard J. Gilbrech, Associate Director, John C. Stennis Space Center, MS 39529-6000, E-Mail (richard.j.gilbrech@nasa.gov) Phone 228-688-1128, or Fax (228) 688-3240]; Alternate I (Jun 2000)
- 1852.219-76 NASA 8 Percent Goal (Jul 1997)
- 1852.223-71 Frequency Authorization (Dec 1988)
- 1852.223-70 Safety and Health (Apr 2002)
- 1852.223-75 Major Breach Safety & Security (Feb 2002); Alternate I (Feb 2006)
- 1852.228-75 Minimum Insurance Coverage (Oct 1988)
- 1852.237-70 Emergency Evacuation Procedures (Dec 1988)

**1852.204-76 SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION
TECHNOLOGY RESOURCES (May 2007)**

(a) The Contractor shall be responsible for information and information technology (IT) security when

(1) The Contractor or its subcontractors must obtain physical or electronic (i.e., authentication level 2 and above as defined in National Institute of Standards and Technology (NIST) Special Publication (SP) 800-63, Electronic Authentication Guideline) access to NASA's computer systems, networks, or IT infrastructure; or

(2) Information categorized as low, moderate, or high by the Federal Information Processing Standards (FIPS) 199, Standards for Security Categorization of Federal Information and Information Systems is stored, generated, processed, or exchanged by NASA or on behalf of NASA by a contractor or subcontractor, regardless of whether the information resides on a NASA or a contractor/subcontractor's information system.

(b) IT Security Requirements.

(1) Within 30 days after contract award, a Contractor shall submit to the Contracting Officer for NASA approval an IT Security Plan, Risk Assessment, and FIPS 199, Standards for Security Categorization of Federal Information and Information Systems, Assessment. These plans and assessments, including annual updates shall be incorporated into the contract as compliance documents.

(i) The IT system security plan shall be prepared consistent, in form and content, with NIST SP 800-18, Guide for Developing Security Plans for Federal Information Systems, and any additions/augmentations described in NASA Procedural Requirements (NPR) 2810, Security of Information Technology. The security plan shall identify and document appropriate IT security controls consistent with the sensitivity of the information and the requirements of Federal Information Processing Standards (FIPS) 200, Recommended Security Controls for Federal Information Systems. The plan shall be reviewed and updated in accordance with NIST SP 800-26, Security Self-Assessment Guide for Information Technology Systems, and FIPS 200, on a yearly basis.

(ii) The risk assessment shall be prepared consistent, in form and content, with NIST SP 800-30, Risk Management Guide for Information Technology Systems, and any additions/augmentations described in NPR 2810. The risk assessment shall be updated on a yearly basis.

(iii) The FIPS 199 assessment shall identify all information types as well as the "high water mark," as defined in FIPS 199, of the processed, stored, or transmitted information necessary to fulfill the contractual requirements.

(2) The Contractor shall produce contingency plans consistent, in form and content, with NIST SP 800-34, Contingency Planning Guide for Information Technology Systems, and any additions/augmentations described in NPR 2810. The Contractor shall perform yearly "Classroom Exercises." "Functional Exercises," shall be coordinated with the Center CIOs and be conducted once every three years, with the first conducted within the first two years of contract award. These exercises are defined and described in NIST SP 800-34.

(3) The Contractor shall ensure coordination of its incident response team with the NASA Incident Response Center (NASIRC) and the NASA Security Operations Center, ensuring that incidents are reported consistent with NIST SP 800-61, Computer Security Incident Reporting Guide, and the United States Computer Emergency Readiness Team's (US-CERT) Concept of Operations for reporting security incidents. Specifically, any confirmed incident of a system containing NASA data or controlling NASA assets shall be reported to NASIRC within one hour that results in unauthorized access, loss or modification of NASA data, or denial of service affecting the availability of NASA

data.

(4) The Contractor shall ensure that its employees, in performance of the contract, receive annual IT security training in NASA IT Security policies, procedures, computer ethics, and best practices in accordance with NPR 2810 requirements. The Contractor may use web-based training available from NASA to meet this requirement.

(5) The Contractor shall provide NASA, including the NASA Office of Inspector General, access to the Contractor's and subcontractors' facilities, installations, operations, documentation, databases, and personnel used in performance of the contract. Access shall be provided to the extent required to carry out IT security inspection, investigation, and/or audits to safeguard against threats and hazards to the integrity, availability, and confidentiality of NASA information or to the function of computer systems operated on behalf of NASA, and to preserve evidence of computer crime. To facilitate mandatory reviews, the Contractor shall ensure appropriate compartmentalization of NASA information, stored and/or processed, either by information systems in direct support of the contract or that are incidental to the contract.

(6) The Contractor shall ensure that system administrators who perform tasks that have a material impact on IT security and operations demonstrate knowledge appropriate to those tasks. Knowledge is demonstrated through the NASA System Administrator Security Certification Program. A system administrator is one who provides IT services (including network services, file storage, and/or web services) to someone other than themselves and takes or assumes the responsibility for the security and administrative controls of that service. Within 30 days after contract award, the Contractor shall provide to the Contracting Officer a list of all system administrator positions and personnel filling those positions, along with a schedule that ensures certification of all personnel within 90 days after contract award. Additionally, the Contractor should report all personnel changes which impact system administrator positions within 5 days of the personnel change and ensure these individuals obtain System Administrator certification within 90 days after the change.

(7) The Contractor shall ensure that NASA's Sensitive But Unclassified (SBU) information as defined in NPR 1600.1, NASA Security Program Procedural Requirements, which includes privacy information, is encrypted in storage and transmission.

(8) When the Contractor is located at a NASA Center or installation or is using NASA IP address space, the Contractor shall --

(i) Submit requests for non-NASA provided external Internet connections to the Contracting Officer for approval by the Network Security Configuration Control Board (NSCCB);

(ii) Comply with the NASA CIO metrics including patch management, operating systems and application configuration guidelines, vulnerability scanning, incident reporting, system administrator certification, and security training; and

(iii) Utilize the NASA Public Key Infrastructure (PKI) for all encrypted communication or non-repudiation requirements within NASA when secure email capability is required.

(c) Physical and Logical Access Requirements.

(1) Contractor personnel requiring access to IT systems operated by the Contractor for NASA or interconnected to a NASA network shall be screened at an appropriate level in accordance with NPR 2810 and Chapter 4, NPR 1600.1, NASA Security Program Procedural Requirements. NASA shall provide screening, appropriate to the highest risk level, of the IT systems and information accessed, using, as a minimum, National Agency Check with Inquiries (NACI). The Contractor shall submit the required forms to the NASA Center Chief of Security (CCS) within fourteen (14) days after contract award or assignment of an individual to a position requiring screening. The forms may be obtained from the CCS. At the option of NASA, interim access may be granted pending completion of the

required investigation and final access determination. For Contractors who will reside on a NASA Center or installation, the security screening required for all required access (e.g., installation, facility, IT, information, etc.) is consolidated to ensure only one investigation is conducted based on the highest risk level. Contractors not residing on a NASA installation will be screened based on their IT access risk level determination only. See NPR 1600.1, Chapter 4.

(2) Guidance for selecting the appropriate level of screening is based on the risk of adverse impact to NASA missions. NASA defines three levels of risk for which screening is required (IT-1 has the highest level of risk).

(i) IT-1 -- Individuals having privileged access or limited privileged access to systems whose misuse can cause very serious adverse impact to NASA missions. These systems include, for example, those that can transmit commands directly modifying the behavior of spacecraft, satellites or aircraft.

(ii) IT-2 -- Individuals having privileged access or limited privileged access to systems whose misuse can cause serious adverse impact to NASA missions. These systems include, for example, those that can transmit commands directly modifying the behavior of payloads on spacecraft, satellites or aircraft; and those that contain the primary copy of "level 1" information whose cost to replace exceeds one million dollars.

(iii) IT-3 -- Individuals having privileged access or limited privileged access to systems whose misuse can cause significant adverse impact to NASA missions. These systems include, for example, those that interconnect with a NASA network in a way that exceeds access by the general public, such as bypassing firewalls; and systems operated by the Contractor for NASA whose function or information has substantial cost to replace, even if these systems are not interconnected with a NASA network.

(3) Screening for individuals shall employ forms appropriate for the level of risk as established in Chapter 4, NPR 1600.1.

(4) The Contractor may conduct its own screening of individuals requiring privileged access or limited privileged access provided the Contractor can demonstrate to the Contracting Officer that the procedures used by the Contractor are equivalent to NASA's personnel screening procedures for the risk level assigned for the IT position.

(5) Subject to approval of the Contracting Officer, the Contractor may forgo screening of Contractor personnel for those individuals who have proof of a --

(i) Current or recent national security clearances (within last three years);

(ii) Screening conducted by NASA within the last three years that meets or exceeds the screening requirements of the IT position; or

(iii) Screening conducted by the Contractor, within the last three years, that is equivalent to the NASA personnel screening procedures as approved by the Contracting Officer and concurred on by the CCS.

(d) The Contracting Officer may waive the requirements of paragraphs (b) and (c)(1) through (c)(3) upon request of the Contractor. The Contractor shall provide all relevant information requested by the Contracting Officer to support the waiver request.

(e) The Contractor shall contact the Contracting Officer for any documents, information, or forms necessary to comply with the requirements of this clause.

(f) At the completion of the contract, the contractor shall return all NASA information and IT resources provided to the contractor during the performance of the contract and certify that all NASA information has been purged from contractor-owned systems used in the performance of the contract.

(g) The Contractor shall insert this clause, including this paragraph (g), in all subcontracts

(1) Have physical or electronic access to NASA's computer systems, networks, or IT infrastructure; or

(2) Use information systems to generate, store, process, or exchange data with NASA or on behalf of NASA, regardless of whether the data resides on a NASA or a contractor's information system.

(End of Clause)

**1852.232-77 LIMITATION OF FUNDS (FIXED-PRICE CONTRACT)
(Mar 1989)**

(a) Of the total price of items through CLIN 004, the sum of (b)(4) is presently available for payment and allotted to this contract. It is anticipated that from time to time additional funds will be allocated to the contract in accordance with the following schedule, until the total price of said items is allotted:

SCHEDULE FOR ALLOTMENT OF FUNDS	
Date: TBD	Amounts: TBD

(b) The Contractor agrees to perform or have performed work on the items specified in paragraph (a) of this clause up to the point at which, if this contract is terminated pursuant to the Termination for Convenience of the Government clause of this contract, the total amount payable by the Government (including amounts payable for subcontracts and settlement costs) pursuant to paragraphs (f) and (g) of that clause would, in the exercise of reasonable judgment by the Contractor, approximate the total amount at the time allotted to the contract. The Contractor is not obligated to continue performance of the work beyond that point. The Government is not obligated in any event to pay or reimburse the Contractor more than the amount from time to time allotted to the contract, anything to the contrary in the Termination for Convenience of the Government clause notwithstanding.

(c)(1) It is contemplated that funds presently allotted to this contract will cover the work to be performed until June 03, 2010.

(2) If funds allotted are considered by the Contractor to be inadequate to cover the work to be performed until that date, or an agreed date substituted for it, the Contractor shall notify the Contracting Officer in writing when within the next 60 days the work will reach a point at which, if the contract is terminated pursuant to the Termination for Convenience of the Government clause of this contract, the total amount payable by the Government (including amounts payable for subcontracts and settlement costs) pursuant to paragraphs (f) and (g) of that clause will approximate 75 percent of the total amount then allotted to the contract.

(3) (i) The notice shall state the estimate when the point referred to in paragraph (c)(2) of this clause will be reached and the estimated amount of additional funds required to continue performance to the date specified in paragraph (c)(1) of this clause, or an agreed date substituted for it.

(ii) The Contractor shall, 60 days in advance of the date specified in paragraph (c)(1) of this clause, or an agreed date substituted for it, advise the Contracting Officer in writing as to the estimated amount of additional funds required for the timely performance of the contract for a further period as may be specified in the contract or otherwise agreed to by the parties.

(4) If, after the notification referred to in paragraph (c)(3)(ii) of this clause, additional funds are not allotted by the date specified in paragraph (c)(1) of this clause, or an agreed date substituted

for it, the Contracting Officer shall, upon the Contractor's written request, terminate this contract on that date or on the date set forth in the request, whichever is later, pursuant to the Termination for Convenience of the Government clause.

(d) When additional funds are allotted from time to time for continued performance of the work under this contract, the parties shall agree on the applicable period of contract performance to be covered by these funds. The provisions of paragraphs (b) and (c) of this clause shall apply to these additional allotted funds and the substituted date pertaining to them, and the contract shall be modified accordingly.

(e) If, solely by reason of the Government's failure to allot additional funds in amounts sufficient for the timely performance of this contract, the Contractor incurs additional costs or is delayed in the performance of the work under this contract, and if additional funds are allotted, an equitable adjustment shall be made in the price or prices (including appropriate target, billing, and ceiling prices where applicable) of the items to be delivered, or in the time of delivery, or both.

(f) The Government may at any time before termination, and, with the consent of the Contractor, after notice of termination, allot additional funds for this contract.

(g) The provisions of this clause with respect to termination shall in no way be deemed to limit the rights of the Government under the default clause of this contract. The provisions of this Limitation of Funds clause are limited to the work on and allotment of funds for the items set forth in paragraph (a) of this clause. This clause shall become inoperative upon the allotment of funds for the total price of said work except for rights and obligations then existing under this clause.

(h) Nothing in this clause shall affect the right of the Government to terminate this contract pursuant to the Termination for Convenience of the Government clause of this contract.

(End of Clause)

1852.242-72 OBSERVANCE OF LEGAL HOLIDAYS (AUG 1992) ALTERNATE II (OCT 2000)

(a) The on-site Government personnel observe the following holidays:
New Year's Day

Labor Day

Martin Luther King, Jr.'s Birthday

Columbus Day

President's Day

Veterans Day

Memorial Day

Thanksgiving Day

Independence Day

Christmas Day

Any other day designated by Federal statute, Executive order, or the President's proclamation.

(b) When any holiday falls on a Saturday, the preceding Friday is observed. When any holiday falls on a Sunday, the following Monday is observed. Observance of such days by Government personnel shall not by itself be cause for an additional period of performance or entitlement of compensation except as set forth within the contract.

(End of clause)

ALTERNATE II

As prescribed in 1842.7001(c), add the following as paragraphs (e) and (f) if Alternate I is used, or as paragraphs (c) and (d) if Alternate I is not used. If added as paragraphs (c) and (d), amend the first sentence of paragraph (d) by deleting "(e)" and adding "(c)" in its place.

(c) When the NASA installation grants administrative leave to its Government employees (e.g., as a result of inclement weather, potentially hazardous conditions, or other special circumstances), Contractor personnel working on-site should also be dismissed. However, the contractor shall provide sufficient on-site personnel to perform round-the-clock requirements of critical work already in process, unless otherwise instructed by the Contracting Officer or authorized representative.

(d) Whenever administrative leave is granted to Contractor personnel pursuant to paragraph (e) of this clause, it shall be the determination of the Contracting Officer as to what amount to reimburse the contractor.

(End of Clause)

1852.245-71 INSTALLATION-ACCOUNTABLE GOVERNMENT PROPERTY (NOVEMBER 2004)

- (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:
- (1) Reporting any missing or untagged (meeting the criteria for control) equipment, transfer, location change, or user change of equipment to the cognizant property custodian.
 - (2) Notifying the cognizant property custodian, supervisor, and the Installation Security Officer immediately if theft of Government property is suspected.
 - (3) Ensuring that such equipment is used only in pursuit of approved NASA programs and projects.
 - (4) Identifying equipment not being actively used in pursuit of approved NASA programs and projects.

- (5) Ensuring that equipment is turned in to the Property Disposal Officer through the cognizant property custodian when no longer needed. Under no circumstances will an employee throw away Government equipment.
- (6) At Installations with full-time property custodians, assigned users retain all responsibilities including notifying cognizant property custodian of all activity associated with the user's assigned equipment.
- (7) The Contractor shall perform maintenance, calibration and repair on all Installation Accountable Government Property Attachment 3 in accordance with FAR 52.245-1 Alt. I.
- (8) The Contractor shall properly store and control IAGP.

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 recordkeeping, 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 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.

(End of Clause)

1852.245-77 LIST OF INSTALLATION-ACCOUNTABLE PROPERTY AND SERVICES (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 Attachment 3. 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.
- (e) Safety and fire protection for Contractor personnel and facilities.
- (f) Installation service facilities: Calibration, Gas Labs and other facilities deemed necessary
- (g) Medical treatment of a first-aid nature for Contractor personnel injuries or illnesses sustained during on-site duty.
- (h) Cafeteria privileges for Contractor employees during normal operating hours.
- (i) Building maintenance for facilities occupied by Contractor personnel.
- (j) 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.
- (k) 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)

1852.237-72 ACCESS TO SENSITIVE INFORMATION (JUNE 2005)

(a) As used in this clause, "sensitive information" refers to information that a contractor has developed at private expense, or that the Government has generated that qualifies for an exception to the Freedom of Information Act, which is not currently in the public domain, and which may embody trade secrets or commercial or financial information, and which may be sensitive or privileged.

(b) To assist NASA in accomplishing management activities and administrative functions, the Contractor shall provide the services specified elsewhere in this contract.

(c) If performing this contract entails access to sensitive information, as defined above, the Contractor agrees to -

- (1) Utilize any sensitive information coming into its possession only for the purposes of performing the services specified in this contract, and not to improve its own competitive position in another procurement.
 - (2) Safeguard sensitive information coming into its possession from unauthorized use and disclosure.
 - (3) Allow access to sensitive information only to those employees that need it to perform services under this contract.
 - (4) Preclude access and disclosure of sensitive information to persons and entities outside of the Contractor's organization.
 - (5) Train employees who may require access to sensitive information about their obligations to utilize it only to perform the services specified in this contract and to safeguard it from unauthorized use and disclosure.
 - (6) Obtain a written affirmation from each employee that he/she has received and will comply with training on the authorized uses and mandatory protections of sensitive information needed in performing this contract.
 - (7) Administer a monitoring process to ensure that employees comply with all reasonable security procedures, report any breaches to the Contracting Officer, and implement any necessary corrective actions.
- (d) The Contractor will comply with all procedures and obligations specified in its Organizational Conflicts of Interest Avoidance Plan, which this contract incorporates as a compliance document.
- (e) The nature of the work on this contract may subject the Contractor and its employees to a variety of laws and regulations relating to ethics, conflicts of interest, corruption, and other criminal or civil matters relating to the award and administration of government contracts. Recognizing that this contract establishes a high standard of accountability and trust, the Government will carefully review the Contractor's performance in relation to the mandates and restrictions found in these laws and regulations. Unauthorized uses or disclosures of sensitive information may result in termination of this contract for default, or in debarment of the Contractor for serious misconduct affecting present responsibility as a government contractor.
- (f) The Contractor shall include the substance of this clause, including this paragraph (f), suitably modified to reflect the relationship of the parties, in all subcontracts that may involve access to sensitive information

(End of Clause)

1852.237-73 RELEASE OF SENSITIVE INFORMATION (Jun 2005)

- (a) As used in this clause, "sensitive information" refers to information, not currently in the public domain, that the Contractor has developed at private expense, that may embody trade secrets or commercial or financial information, and that may be sensitive or privileged.
- (b) In accomplishing management activities and administrative functions, NASA relies heavily on the support of various service providers. To support NASA activities and functions, these service

providers, as well as their subcontractors and their individual employees, may need access to sensitive information submitted by the Contractor under this contract. By submitting this proposal or performing this contract, the Contractor agrees that NASA may release to its service providers, their subcontractors, and their individual employees, sensitive information submitted during the course of this procurement, subject to the enumerated protections mandated by the clause at 1852.237-72, Access to Sensitive Information.

(c)

(1) The Contractor shall identify any sensitive information submitted in support of this proposal or in performing this contract. For purposes of identifying sensitive information, the Contractor may, in addition to any other notice or legend otherwise required, use a notice similar to the following:

Mark the title page with the following legend:

This proposal or document includes sensitive information that NASA shall not disclose outside the Agency and its service providers that support management activities and administrative functions. To gain access to this sensitive information, a service provider's contract must contain the clause at NFS 1852.237-72, Access to Sensitive Information. Consistent with this clause, the service provider shall not duplicate, use, or disclose the information in whole or in part for any purpose other than to perform the services specified in its contract. This restriction does not limit the Government's right to use this information if it is obtained from another source without restriction. The information subject to this restriction is contained in pages [insert page numbers or other identification of pages].

Mark each page of sensitive information the Contractor wishes to restrict with the following legend:

Use or disclosure of sensitive information contained on this page is subject to the restriction on the title page of this proposal or document.

(2) The Contracting Officer shall evaluate the facts supporting any claim that particular information is "sensitive." This evaluation shall consider the time and resources necessary to protect the information in accordance with the detailed safeguards mandated by the clause at 1852.237-72, Access to Sensitive Information. However, unless the Contracting Officer decides, with the advice of Center counsel, that reasonable grounds exist to challenge the Contractor's claim that particular information is sensitive, NASA and its service providers and their employees shall comply with all of the safeguards contained in paragraph (d) of this clause.

(d) To receive access to sensitive information needed to assist NASA in accomplishing management activities and administrative functions, the service provider must be operating under a contract that contains the clause at 1852.237-72, Access to Sensitive Information. This clause obligates the service provider to do the following:

- (1) Comply with all specified procedures and obligations, including the Organizational Conflicts of Interest Avoidance Plan, which the contract has incorporated as a compliance document.
- (2) Utilize any sensitive information coming into its possession only for the purpose of performing the services specified in its contract.
- (3) Safeguard sensitive information coming into its possession from unauthorized use and disclosure.
- (4) Allow access to sensitive information only to those employees that need it to perform services under its contract.
- (5) Preclude access and disclosure of sensitive information to persons and entities outside of the service provider's organization.

- (6) Train employees who may require access to sensitive information about their obligations to utilize it only to perform the services specified in its contract and to safeguard it from unauthorized use and disclosure.
- (7) Obtain a written affirmation from each employee that he/she has received and will comply with training on the authorized uses and mandatory protections of sensitive information needed in performing this contract.
- (8) Administer a monitoring process to ensure that employees comply with all reasonable security procedures, report any breaches to the Contracting Officer, and implement any necessary corrective actions.
- (e) When the service provider will have primary responsibility for operating an information technology system for NASA that contains sensitive information, the service provider's contract shall include the clause at 1852.204-76, Security Requirements for Unclassified Information Technology Resources. The Security Requirements clause requires the service provider to implement an Information Technology Security Plan to protect information processed, stored, or transmitted from unauthorized access, alteration, disclosure, or use. Service provider personnel requiring privileged access or limited privileged access to these information technology systems are subject to screening using the standard National Agency Check (NAC) forms appropriate to the level of risk for adverse impact to NASA missions. The Contracting Officer may allow the service provider to conduct its own screening, provided the service provider employs substantially equivalent screening procedures.
- (f) This clause does not affect NASA's responsibilities under the Freedom of Information Act.
- (g) The Contractor shall insert this clause, including this paragraph (g), suitably modified to reflect the relationship of the parties, in all subcontracts that may require the furnishing of sensitive information.

(End of Clause)

LIST OF ATTACHMENTS

The following documents are attached hereto. Attachment 1 thru 10 shall be made part of the contract.

ATTACHMENT TITLE	DATE	PAGES
1 Performance Work Statement	N/A	28
2 Data Requirement Documents (DRD)	N/A	73
3 List Of Government Furnished Property	N/A	31
4 Performance Requirements Summary	N/A	2
5 Department of Labor Wage Determination	26 May 09	13
6 Pricing Schedule for CLIN 004, 007, & 010	N/A	1
7 PIV Card Issuance Procedures	N/A	4
8 Cercla Map	30 July 09	1
9 Contractor Approved Safety and Health Plan	N/A	N/A
10 Organizational Conflict of Interest Avoidance Plan (See DR List)	26 January 10	28
11 Amendment to Solicitation 0001	5 November 09	10
12 Amendment to Solicitation 0002	5 November 09	1
13 Amendment to Solicitation 0003	12 February 10	2

PERFORMANCE WORK STATEMENT (PWS)**PART I – THE SCHEDULE****SECTION C****C.1 INTRODUCTION****C.1.1 General**

National Aeronautics and Space Administration (NASA) Stennis Space Center (SSC) has a requirement for laboratory services, which are not inherently governmental functions. This Performance Work Statement (PWS) describes services that are neither inherently governmental nor personal services in nature. These services are required by NASA to support its roles and missions at the John C. Stennis Space Center and other centers as required.

The Contractor shall provide all materials and technical services including:

- a. Gas, materials, and environmental laboratory analysis, professional data reduction and analysis to develop objective evidence, renderings, trends, opinions, conclusions, experimental designs and logical pathways along with improvement suggestions provided and verified by the laboratory personnel.
- b. Maintenance of measurement standards and the calibration and repair of instrumentation,
- c. Specialized technical, business, and administrative systems services and related operations required to support the Center's mission requirements.

The Contractor is responsible for furnishing a sufficient number of qualified personnel to accomplish the services. Diverse activities at Stennis Space Center (SSC) will demand a flexible, cross-trained staff to fully support quick and cost effective response to technical requirements, such as providing highly specialized laboratory support to propulsion programs, specialized technical support to naval oceanographic systems conducted on-site and at remote locations including ships at sea. Price associated with activities involving remote locations will be established in the individual SWR.

NASA and its resident agencies work various tours of duty. The Contractor shall be required to cover core normal work hours (defined as 7:00 a.m. – 5:00 p.m.). At times, some operations may require up to 24-hour per day, 7 days a week support contingent upon program requirements. Historically Operations that require hours outside of normal work hours have averaged twice a month with the majority of the work supporting the Gas and Material Lab. Program requirements and schedules will dictate types and quantities of skills and work hours. Short-term technical tasks may require the Contractor to provide highly specialized technical personnel or services for special designs when necessary.

C.1.2 Performance Requirements

Work required under this contract will be expressed in the form of performance requirements.

Performance requirements are identified in the two (2) sections of the Work Statement: C.2 Contract Management and C.3 Laboratory Services. Performance requirements are further defined in terms of performance objectives, performance measures, and performance standards. A performance objective is defined as a statement addressing the outcomes desired by Stennis Space Center (SSC). Performance measures are defined as characteristics or attributes of achieving the performance objective that will be measured. Each performance measure has an assigned standard, i.e., a targeted level of performance. The basic performance objective, performance measures, and performance standards are identified in this PWS.

Lower level, or task specific performance requirements are assigned through the Stennis Space Center (SSC) work order system utilizing a Stennis Work Request (SWR) to identify the performance requirements,

completion schedules, and not to exceed cost limits. All NASA SWRs shall have a completion date. All Reimbursable SWRs under the contract shall have completion schedules, funding reference, and not to exceed cost controlled by electronic automated data techniques, keeping paper processing to a minimum. The Contractor must have a system by which all costs are accurately identified and entered into the Stennis Space Center (SSC) accounting system (refer to DR MF01). All of the performance requirements will be applied to three distinct areas within the system: NASA programmatic, institutional, and reimbursable services.

“NASA programmatic services” for development programs require a core support capability of scientific and engineering skills as further defined in this PWS and specific SWRs.

“Institutional services” require a core capability for operating elements of the Stennis Space Center (SSC) installation. This core capability includes management and administrative services, environmental and technical laboratories, safety and quality assurance, as further defined in this PWS and specific SWRs.

“Reimbursable services” (referred to as “Demand Work” in the schedule of services on the SF 1449) require a flexible capability. These services represent the most variable requirements of NASA resident agencies and commercial tenants. The Contractor is responsible for coordinating and forecasting reimbursable services and for projecting staffing requirements to accomplish these tasks.

C.2.0 CONTRACT MANAGEMENT

The Contractor shall provide the overall management and administrative services required for the execution of all contract activities fully meeting the business, technical performance, legal, and regulatory requirements of the contract such that the outcome of work performed under each individual SWR:

- Fully meet the performance objective of the authorizing work request.
- Is performed within the schedule of the authorizing work request.
- Is accomplished within the cost estimate of the authorizing work request.
- Is accomplished in a safe and high quality manner resulting in no lost time injury or damage to Government or other customer owned facility or equipment.

C.2.1 Financial Management

The Contractor shall provide financial services to comply with the Stennis Space Center (SSC) financial systems to satisfy the reporting requirements of NASA/SSC management, resident agencies, commercial tenants, NASA/SSC Contractors and others in the management of NASA/SSC resources.

C.2.1.1 Funds Availability: The Contractor shall process and maintain reimbursable SWRs by ensuring funds are accepted and reserved in the Funds Availability System (FAS), and by obtaining prior-approval from the designated CO. The Contractor shall interface with the FAS to ensure release of unused funding after completion of work.

C.2.1.2 Cost reporting: The Contractor’s system shall interface with NASA/SSC’s Other Accumulated Cost (OAC) system to provide financial reports to comply with the NASA/SSC financial reporting requirements. NASA/SSC management, resident agencies, commercial tenants, other NASA/SSC contractors, as well as others in the management organization of NASA/SSC define financial reporting requirements. The Contractor’s system shall provide the capability that allows for the application of non-contract costs (NASA/SSC surcharge) to the total cost of an SWR. The contractor shall work with the NASA office of the Chief Financial Office (OCFO) to develop the appropriate surcharge for the SWR. The system shall be capable to provide full cost accounting and liquidation of contract Management and Administration (M&A) and Laboratory Operation Overhead costs as applicable to each technical unit.

The contractor will summarize the costs and prepare a report for each Stennis fiscal month, detailing the OAC costs. The level of detail must be acceptable to NASA OCFO and the Contracting Officer. (Refer to DR MF01).

The contractors' system shall provide the reporting of element costs to the Stennis Budget Line Item (BLI) level each fiscal month. The report shall contain the Full Time Equivalents (FTE) and cost by each BLI (refer to DR MF02). In addition, the contractor shall report, by the first business day following the prior weekend, the actual cost of any SWR that has reached 85% and 100% of the NTE amount and/or when the SWR is 14-calendar days from expiration (see DR's MF03 and MF04).

C.2.1.3 Budget Development Support: The Contractor shall respond to requests for support to the development of the Planning and Budget Execution (PPBE), annual phasing plans and other special budget exercises.

The contractor shall prepare a detailed cost report at the end of each fiscal year to support the development of occupancy rates. The report will be in two parts. Part 1 will be a summary listing of BLI, year-to-date cost, and year-to-date hours for the previous fiscal year. Part 2 will provide detail data elements including all costs incurred in previous fiscal year by work order and budget line item; cost breakdown by Labor, Material, ODC, Total; total hours; subtotal by benefiter within budget line item; subtotal by budget line item; and grand total (see DR MF05).

C.2.2 Management Systems: The Contractor is responsible for establishing a management program that responds to changing service requirements and prioritizes tasks to best accomplish the requirements of the contract in terms of safety and mission support; resident agency initiatives; expanded commercial tenant base; and overall customer satisfaction. The Contractor shall provide cost effective, timely, and efficient project and program management to related support and new mission development services to enable the accomplishment of the various roles and missions of the center.

C.2.2.1 Work Control: The Contractor shall provide the appropriate work control systems for receiving, managing, planning, coordinating, scheduling, implementing, and reporting of all SWRs in accordance with SPD 5100.1, "Policy for Ordering of Materials and Support Services at Stennis Space Center." The Contractor shall ensure that work is scheduled in a timely manner within the cost estimate, and with minimal impact on the customers and their mission. The Contractor shall not exceed cost on the work order without obtaining prior written approval from the requester and NASA COTR/CO and an amended SWR.

A Work Order, hereafter called Stennis Work Request (SWR), is an order to the Contractor within the scope of functions described in the Performance Work Statement defining a specific job or task to be performed by the Contractor. It will convey information necessary to describe the activity with regard to technical contents and milestone metrics. The SWR will be issued in accordance with NASA/SSC Common Work Instruction SCWI-5100-0001. The SWR must be approved and signed by the Contracting Officer's Technical Representative (COTR) and the Contracting Officer and accepted by the contractor prior to commencement of service by the Contractor. SWRs for reimbursable customers, including commercial tenants, must be processed and approved through the NASA/SSC Funds Availability System (FAS) before commencement of work. Upon successful completion of the work, the SWR requester will accept the work by signing off on the SWR. In no event shall the work required under any SWR exceed the cost or date limitations specified in the SWR. The contractor shall, on a weekly basis, notify SWR requestors, Contracting Officer Technical Representative (COTR) and the NASA/SSC Contracting Officer (CO), in writing or via e-mail, when the actual cost of any SWR has reached 85%, 90%, and 100% of the not-to-exceed amount and/or when an SWR is 14 calendar days from expiration.

If any work, directed by the Government through Stennis Work Requests is within the general requirements of this contract, as the same is set forth in the Contract Schedule and attachments, such direction is within the Contractor's original contractual obligation and will not constitute nor be construed as a change within the meaning of the "Contract Terms & Conditions – Commercial Items" clause 52.212-4 of the General Provisions of the Contract. If any direction by the Government through Work Orders or otherwise is considered by the Contractor to be outside the requirements of its

contractual obligation, the Contractor, before performing any effort pursuant to such Government direction, shall refer such question to the Contracting Officer for resolution.

C.2.2.2 Documentation Systems: The Contractor shall establish adequate documentation systems with a corresponding documentation tree.

The Contractor shall provide a technical and engineering documentation system for plans, manuals, reports, and procedures that conform to NASA standards. Included within these documents shall be detailed scientific and engineering language, charts, graphs, specifications, cost estimates, and drawings. All such documentation shall be maintained, archived, and stored in the NASA Central Engineering Files as maintained by the NASA Facilities Operating Services Contractor (FOSC).

The Contractor shall utilize to the maximum extent possible existing Stennis Space Center (SSC) documentation. The Contractor shall develop and utilize necessary documentation such as operating plans and procedures, maintenance and operating instructions, and other types of work instructions. Documentation and the document index will be developed, managed, and maintained in accordance with SPR 1400.1, Document Preparation, Numbering, and Management. The Contractor shall officially record and house documentation in the Stennis Space Center (SSC) TechDoc System document repository. The Contractor shall provide administrative support for the TechDoc System including user account maintenance, document posting and removal when required, and training on usage of the system.

The Contractor shall provide comprehensive documentation and records and files management plan to establish a records system for the appropriate filing, maintenance, storage, retrieval, and disposition of records. The Contractor shall provide a repository for audiovisual material created at Stennis Space Center (SSC) to be maintained and archived per NASA and the National Archives and Records Administration (NARA) regulations, and forward still photographs created to the designated NASA Contractor for archiving. Records shall be maintained in accordance with NPD 1440.6G NASA Records Management and NPR 1441.1D NASA Records Retention Schedule. The Contractor shall use the NASA Stennis Space Center (SSC) automated system for the tracking of records under their control. The Contractor shall develop a plan for documentation development and operation of the record and files management program in compliance with NARA and CFR requirements, as implemented by NASA policies and procedures and specified in DR DM01.

C.2.2.3 Property Management: The Contractor shall be responsible for the custodial accountability, tracking, operation, maintenance, servicing, and repair of all assigned property in accordance with the Stennis Space Center (SSC) Property Management System. The user responsibilities of the Contractor are defined in paragraph (a) of the clause at 1852.245-71, Installation-Accountable Government Property. They are further defined in the following property management directives and installation supplements to these directives.

- Series 4100 NASA Materials Inventory Management Manual
- Series 4200 NASA Equipment Management Manual
- Series 4200.2 NASA Equipment Management System (NEMS) User's Guide for Property Custodians
- Series 4300 NASA Personal Property Disposal Manual

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; contractor employees must make other arrangements for unofficial calls.
- (b) General- and special-purpose equipment, including office furniture.

(c) Vehicles will be provided: the quantity and type of vehicles will be determined by the NASA/SSC Transportation Officer. Historically one vehicle has been provided for field work and pick up/deliveries of equipment. (see attachment 3 for GFP)

The Contractor shall use the property management system, which NASA has established through other Stennis Space Center (SSC) support contracts. The Contractor shall submit an implementation plan for control and protection of Government property in accordance with DR LS01.

C.2.2.4 Security Services: The Contractor shall be responsible for a security program to protect, safeguard, and control both unclassified and classified information as it pertains to the contract. This program will include security required for competition-sensitive information provided by commercial customers doing business with Stennis Space Center (SSC). In addition, the Contractor shall establish a security program to protect assigned equipment from theft and abuse. The Contractor shall provide for access control of National Resource Protection (NRP) facilities as identified in the Stennis Operations and Maintenance Responsibility Database (SOMRD). The Contractor's security program shall be in conformance with the NASA Stennis Space Center (SSC) Security Manual and DoD 5220.22M.

C.2.2.5 Quality Management System: The Contractor shall maintain compliance to the Stennis Space Center (SSC) Quality Management System (AS9100/ISO9001) and Environmental Management System (ISO Standard 14000). The Stennis Space Center (SSC) ISO Registration scope, technical services, includes the Contractor. The Contractor shall develop and maintain appropriate work instructions necessary to implement the Stennis Space Center (SSC) Level I and Level II ISO documents. Processes requiring work instructions include: quality assurance, safety, engineering, purchasing, calibration, gas and material analysis, environmental laboratory and training. The Contractor shall also provide personnel to support the Stennis Space Center (SSC) internal audit processes. Nonconforming products shall be identified and documented IAW SSTD-8070-0008-CONFIG, Discrepancy and Correction Report.

C.2.2.6 Management Systems Support: The Contractor shall support Center specific management initiatives, programs, investigations, and other special activities including, but not limited to S&MA, NASA program specific and institutional base activities.

The Contractor shall participate in and fully support the Center's Facility Manager Program. The Contractor shall appoint a Facility Manager for all space occupied by contractor employees, and shall be proactive in the identification and evaluation of building and facility issues impacting the environmental health and safety, emergency preparedness, security, mission suitability, and other aspects of the areas occupied by the contractor as required by the Facility Manager Program.

The Contractor shall fully support other NASA initiatives to the extent they are relative to the contractor activities, including but not limited to AS9100/ISO9001, ISO14001, Voluntary Protection Program, Reliability Center Maintenance (RCM), Lifting Device and Equipment (LDE), Capability Maturity Model (CMM), Integrated Financial Management (IFM), Critical Infrastructure Protection (CIP) and Mission Essential Infrastructure (MEI), Stennis Request System (SRS), Cost Data Warehouse (CDW), Measurement Assurance Program (MAP), Metrology Calibration Working Group (MCWG), and the Stennis Space Center (SSC) Emergency Preparedness Program (EPP) ensuring these initiatives are institutionalized within the contractors work daily environment.

C.2.3 Reserved

C.2.4 Reserved

C.2.5 Safety and Mission Assurance (S&MA)

The Contractor shall generate, implement, and maintain a comprehensive program of safety, reliability and quality assurance activities that provide for:

- Protection of personnel, facilities and equipment.

- Excellence of workmanship and personnel skills.
- Careful and safe operations.
- Maintenance and improvement, where necessary, of product and services.
- Assurance that products and services meet applicable requirements.

The degree of safety, reliability and quality implementation will be commensurate with the scope and complexity of each assigned task.

C.2.5.1 Safety: The Contractor shall be responsible for conducting a comprehensive safety program that includes a focus on Institutional Safety and Health, and System Safety. Contractor operations shall not compromise the safety and health of employees, the value of property, nor harm the environment. Priority shall be given in the following order:

- Safety of the public
- Safety of astronauts and pilots.
- Safety of employees.
- Safety of high value equipment.

The Contractor shall be responsible for coordinating the necessary work activities in support of tasks performed by the Facility Operating Services Contract (FOSC) Contractor such as Lifting Device Equipment (LDE) Operations, etc. The Contractor shall provide a trained work force certified for hazardous operations. In addition, the Contractor shall work to achieve zero mishaps in the work place.

The Contractor shall be responsible for the achievement and maintenance of the OSHA Voluntary Protection Program STAR Demonstration requirements and to the goals and objectives of the Voluntary Protection Programs. The Contractor shall agree to support and maintain the requirements of the VPP STAR Certification and the Environmental Health and Safety Program at NASA Laboratory Services Contract by complying with the Occupational Safety and Health Act (OSHA Act) and ensure that all VPP elements are in place, and develop, implement and maintain the four main VPP elements and thirty-two sub elements.

C.2.5.2 Mission Assurance: The Contractor shall maintain an effective and timely Mission Assurance program that includes quality assurance and control, and also reliability and maintainability, which will be developed in conjunction with all other functions necessary to satisfy the contract requirement. The program shall:

- Demonstrate recognition of the Mission Assurance aspects of the contract and organized approach to achieve them.
- Ensure that Mission Assurance requirements are determined and satisfied throughout all phases of contract performance as specified in SWRs, including subcontracting, fabrication, processing, assembly, inspection, test, checkout and operations.
- Provide for the detection of actual or potential deficiencies, system incompatibility, marginal quality, and trends or conditions, which could result in unsatisfactory quality. Implement and maintain a system to track Corrective Action Requests (CARs), Preventive Action Requests (PARs), and Visual Observation Records (VORs) from inception to completion. Perform random surveys or surveys directed by program manager to measure compliance requirements. Survey results are analyzed for adverse trends. Adverse trends are identified to management per corrective and preventive action plan.
- Implement proactive quality assurance processes. Will conduct formal audits to verify program compliance to applicable directives guides, plans and procedures or as directed by the program manager. Audit results are presented formally to the program manager. Uncorrected audits finding or observation may be identified per the corrective and preventive action procedure.
- Provide a system of metrics for measuring effectiveness of quality processes.

C.3 LABORATORY SERVICES CONTRACT

The Contractor shall provide all necessary materials and operate the Center's Measurements Standards and Calibration (MS&CL), Metrology Assurance, Gas and Material Science (GMSL), Environmental (ENV), Natural Resources (NRMT), Environmental Geospatial Information System (EGIS) laboratories and provide Laboratory General Services (LS) fully meeting the requirements of technical performance, precision, traceability, timeliness, safety, and quality as further defined in this PWS and specific SWRs.

The Contractor shall provide a wide range of calibration, measurement, repair, engineering, scientific, and related laboratory services, required to support NASA missions and programs, and the requirements of the Center's resident agencies and commercial tenants. The Contractor shall provide basic and applied laboratory, metrology engineering, including the major disciplines of mechanical, electrical and electronic, chemical, industrial, aerospace, systems safety, quality, environmental, and computer engineering, and related specialized technical, mathematical, and scientific services necessary to meet SWR requirements. The Contractor shall provide a complete range of services required by SWR's including special studies, fabrication and modification of instrumentation and equipment/systems, calibration, testing and evaluation, field services, geospatial information, safety support, project management and management support, project reporting, planning and scheduling, configuration management, documentation support, and quality and product acceptance support.

C.3.1 General Laboratory Support

The contractor shall provide equipment courier services to Stennis Space Center . The service will provide for regular pickup and delivery of equipment to and from customers locations within Stennis Space Center (SSC). Additional on demand services will be provided for expedite and special circumstances. Courier services will also be provided for the transfer of equipment and material throughout the contract.

Contractor shall provide for receipt of Inspection, Measurement and Test Equipment (IM&TE) from users; inspect for correctness, damage, and initiate Laboratory Work Requests (LWRs) through the Stennis Metrology Management System (SMMS) to process the IM&TE to the responsible calibration laboratory(s).

The contractor must assimilate an estimate of labor hours and material cost before items are released to the labs. Cross checking services will be required to ensure accuracy of the SMMS database, ensure the SWR is approved, and ensure the Calibration Manager is documented along with information required in SSOP-8730-0015-MT. The contractor shall notate any obvious damage, check for type of service (i.e. LOX, LH2, LHE, etc.), if appropriate document any accessories (i.e. power cords, adapters, manuals, etc.), and ensure all necessary customer required preparation has been undertaken or arranged.

The contractor shall out-process completed (Inspection, Measurement, and Test Equipment (IM&TE) from the laboratories to the user with the correct supporting documentation, including but not limited to archival of Calibration Maintenance Records (CMRs) in the Stennis Metrology Management System, update release from storage cards, examine, verify, and correct documentation i.e., LWRs, Equipment Transmittal Records, CMRs and shipping documents to ensure completeness and accuracy of information. The Contractor shall prepare and process Material Requests (MRs), shipping and receiving documents and provide status for the MRs, perform data entry, typing, copying, filing, and other related duties to support work flow processing and record keeping. Shipping and receiving will be performed in concert with the Facilities Contractor.

Laboratory Services shall maintain all equipment transmittal records in appropriate logs for type of SWR Onsite, Base Support, and Mississippi Enterprise for Technology (MSET), and Projects. Any SWR that requires individual subs will be assigned next sub number unless a certain sub is requested by customer. Sub, Cal Manager number, requester's name and quantity of items are notated in the log.

The contractor shall maintain all calibration records as the Stennis Space Center (SSC) Office of Responsibility in accordance with SPR 1440.1 and other NASA directed retention schedules.

C.3.2 Metrology Assurance

The contractor shall provide a wide range of Metrology Engineering services to support metrology and calibration activities. The contractor shall assist NASA in ensuring the metrology and calibration program at Stennis Space Center remains capable to support the diverse customer base and provides the most technically advanced and properly applied measurement concepts. The contractor shall evaluate, select, and apply engineering concepts, scientific techniques, procedures, methodologies and criteria to measurement and/or calibration responsibilities of the Measurement Standards & Calibration Laboratories (MS&L). Other activities performed by Metrology Engineering include: provide measurement quality oversight; provide basic and Stennis Space Center (SSC) specific training for calibration managers and other Stennis Space Center (SSC) personnel; ensure forward and reverse traceability for all measurements to appropriate standards; provide Measurement Process Analysis as needed; provide center support; prepare engineering studies and reports; support and participate in the NASA Metrology and Calibration Working Group (MCWG), including two annual meetings; maintain the Stennis Metrology Management System (SMMS); ensure future Metrology needs are determined and prepared for; implement NASA Metrology Policy NPD 8730.1 as directed through Stennis Space Center (SSC) requirement documents; assist technicians in special, highly technical, or unique measurements; serve as the primary laboratory measurement assurance program technical lead; solve calibration/measurement problems and questions from the laboratory technical staff, NASA Stennis Space Center (SSC) tenants, and other customers; prepare and maintain the annual five year capital equipment plan; research, evaluate, and implement improvements in laboratory measurement processes; calculate total measurement system accuracy/uncertainty by determining and properly combining system component accuracies/uncertainties; use mathematical skills/statistical techniques to calculate measurement uncertainties and develop/improve measurement processes or solve measurement process problems; calculate reliability of standards and field instruments; develop and maintain automated calibration interval system based on NCSL RP-1, "Establishment and Adjustment of Calibration Intervals."; serve as MS&CL and NASA technical resource by remaining current in the newest calibration/measurement theories, equipment, methodologies, research, and specifications; provide a quality calibration service with documentation of records and objective compliance to NPD 8730.1 and ISO9001; assist in directing and maintaining the laboratory policies, procedures, instructions, and plans of the Calibration Program, act as technical contact to other NASA Centers' calibration laboratories, as well as to Stennis Space Center (SSC) Contracting Officers Technical Representative; write technical/administrative reports and conducts technical presentations; act as primary Measurement Assurance Program (MAP) contact to other NASA Centers and NASA HQ; plans, implements, and conducts Measurement Assurance Processes as directed by NASA and the MCWG, and contributes to compilation of NASA Metrology reference publications.

C.3.3 Measurement Standards and Calibration

The contractor shall provide all personnel, supervision and other items and services necessary to manage, test, calibrate, repair, modify, certify and perform Measurement Standards and Calibration Laboratory services on Inspection, Measurement and Test Equipment (IM&TE) as defined in this PWS. Services shall be provided for Stennis Space Center including tenants and other off-site activities as specified and approved by NASA. Off-site work shall be approved by the Contracting Officer.

The Contractor shall provide calibration services to support a full range of measurement equipment and instrumentation. The Contractor shall perform acceptance testing of new measurement equipment and systems internal to the calibration laboratory. The Contractor shall provide certification of traceability of all Stennis Space Center (SSC) reference standards to the National Institute of Standards and Technology (NIST). The Contractor shall provide cleaning and certification services for measuring devices and control elements to be used in cleaning propellant or gaseous systems in support of propulsion testing. Cleaning shall be performed in accordance with Stennis Space Center (SSC) Standard SSTD-8070-0089-Fluids and other applicable Stennis Space Center (SSC) standards.

The Contractor shall provide cleaning and certification for measuring devices, control elements and components/equipment, in support of calibration. The Contractor shall maintain inventory and history of calibration records and maintenance of a calibration recall system.

The contractor shall maintain reference standards traceable to the NIST are used to repair, calibrate and certify working standards requiring calibration. The contractor shall maintain and use calibration certificates supplied with these standards. The contractor shall maintain certified working and transfer standards for the following disciplines:

A. Mass	G. Capacitance	M. Conductivity
B. Length	H. Inductance	N. Acceleration
C. Time	I. Strain	O. Optics
D. Voltage	J. Temperature	P. Wind Speed
E. Resistance	K. Liquid & Gas Flow	Q. Ionizing Radiation
F. Pressure	L. Luminous Intensity	

The contractor shall be responsible for maintenance, calibration, and repair of all Government Furnished Equipment (GFE) used in the performance of this contract. The contractor shall assure that GFE is maintained in a serviceable condition in accordance with applicable Manufacturer’s Specifications and approved Calibration Procedures.

Calibration shall be accomplished in accordance with approved procedures. In the event calibration cannot be completed due to a malfunction within the end item, the contractor shall accomplish repair in accordance with this PWS. The contractor shall accomplish all maintenance procedures in accordance with equipment operating manuals or manufacturer’s recommendations.

Any calibration limitation shall be approved by the equipment owner and/or calibration manager. The calibration limitation shall be clearly annotated with the parameter being limited and any other information pertinent to the accuracy of the item. If the request is for Limited Calibration, the Calibration Maintenance Report (CMR) shall annotate the certified parameters and the accuracy of the calibration.

The Contractor shall operate and maintain a capability for the fabrication, maintenance, repair, and test of a broad range of instrumentation, electronic equipment, and systems. Whenever possible, the contractor shall inspect, troubleshoot, and repair individual components of assemblies and subassemblies, including printed circuit boards, in lieu of replacing the assembly or subassembly

The contractor shall be responsible for notifying the COTR, verifying and authorizing qualified vendor repair and/or calibration for items that cannot be supported at Stennis Space Center. The contractor shall meet all applicable NASA policies and directives for the calibration of IM&TE. When the IM&TE is returned to Stennis Space Center, the contractor shall perform an acceptance inspection in accordance with applicable procedures and Quality documents.

The contractor shall be responsible for complete and accurate documentation and ensure that all required forms, paper and electronic, are properly filled out in accordance with all applicable directives and procedures.

The Contractor shall provide a technical and engineering documentation system for plans, manuals, reports, and procedures that conform to NASA standards, policies, and directives. Included within these documents shall be detailed scientific and engineering language, charts, graphs, specifications, cost estimates, and drawings. The contractor shall develop, review, and evaluate all procedures required to perform calibration and repair of IM&TE. These procedures shall be approved by laboratory management and the cognizant safety and quality offices. All such documentation shall be maintained, archived, and stored in the NASA TechDoc Document Manager System as maintained by the ITS Contractor. The contractor shall support and participate in the NASA Measurement Assurance Program (MAP). This participation shall be in all measurement disciplines to the extent made possible by available expertise, equipment, and manpower.

The contractor shall ensure that all required training and certifications necessary to support the calibration function are maintained.

Historical workload performed is included in Attachment1, Appendix A. Workload deliveries are a mixture of Routine (2-3 weeks), Special (less than 2 weeks, and Expedite (3 days or less). Historically routine work has consisted of 70%, special consisted of 20% and Expedite consisted of 10% of the effort for measurement standards and calibration.

C.3.4 Gas and Material Analysis Services

The Gas and Materials Science Laboratory (GMSL) provides laboratory and applied technology development services for NASA's rocket propulsion test initiatives. The GMSL performs analytical testing designed to better understand, improve, and verify gas systems capabilities and materials used in propulsion systems to ensure safety and performance during static testing and flight. To fulfill this mission, GMSL provides consulting and scientific support to a wide variety of customers, performs standard and non standard lab / field tests, and manages a wide range of research and development projects. A multidisciplinary staff with diverse technical skills is required to resolve a wide array of problems. Efforts in technology development are expended in a wide variety of areas including developing common cleaning standards for NASA, eliminating ozone depleting chemicals, development of traceable gas standards for the aerospace community, evaluating contamination transfer potentials for aerospace process materials, plume analysis of exhaust gasses, the impact of gaseous impurities on specific impulse and thrust performance, material compatibility studies, and analytical method development.

The Contractor shall provide support methods and analysis for materials, chemical and gases. All testing and analysis shall be performed in accordance with approved NASA procedures and National Standards, Marshall Space Flight Center MSFC-STD-3535, RQ0711-601, MIL-PRF-27401D, ASTM D 664-04, RA1610-071 and, when applicable, OSHA requirements for Grade D Breathing Air, SSTD-8070-0089-Fluids, RL10001, RQ0711-600, RA0615-073, and Drawing 11000-G001. Major responsibilities shall include: material identification, gas, cryogenic and liquid analysis, and contamination evaluation.

Trend analyses shall be provided for gaseous commodities and contamination in all STENNIS SPACE CENTER (SSC) propellant and pressurant systems. Lab analysis data is combined with prior events and predictive / statistical techniques to maintain process control and knowledge history. Leadership and support shall be provided to the agency wide Gas Metrology Protocol Initiative. Provide special analytical research and development support when requested. Provide data reduction and analysis services to the NASA customer for interpretation and practical understanding of the data to the engineering staff. Support NASA incident investigations when requested and the flight implications leading to a performance prediction process.

Gas analysis is an integral part of propulsion test activities. The contractor is responsible for maintaining all gases used for commodity analysis. This includes the cross verification of all calibration gases used in the performance of analytical requests. The contractor shall provide determination of contaminants / impurities routinely as required for receipt inspection of gaseous and cryogenic commodities. Contractor shall provide analysis for verifying the purity requirements at user interface points, assessing contamination from the transfer of propellants and pressurants, and gas system integrity following field maintenance activities. The contractor shall provide required analyses to verify the cleanliness level (NVR and particulate analysis) of components / hardware used in contamination sensitive systems throughout the site. The contractor shall provide services on a scheduled and non scheduled basis.

The contractor is responsible for inventory and maintenance on all samplers that are used to collect samples by their customers. (Hoke samplers, Millipore samplers, Condensable Hydrocarbon samplers, Melon samplers, Cosmodyne samplers, Cryogenic Dewar samplers, Hydraulic Oil sample bottles, Clean room Swabs, Clean room Gloves, Clean room Wipes. Bench stock, fittings, and general laboratory supply inventory). The contractor shall provide size and count particulate material that contaminates fluids and gaseous systems.

The contractor shall provide analytical expertise of root cause determination with respect to propulsion test hardware and gas systems. Resolution support and technical problem solving utilizing data generated within the laboratory is required. Develop recommendations to prevent reoccurrence and integrate propulsion related issue resolutions to system level analytical services. Contractor analysis expertise includes evaluation of hardware

failures, manufacturing process problems, evaluation of life cycle test failures, defect detection, contamination analysis, corrosion and environmental effects, and product design review. Failure Analysis reports must provide a clear picture of the root cause, and include recommendations to avoid future failures - from hardware design, through material selection and processing. Failure investigations include Fracture Evaluation, Failure Mode Determination, Fatigue, Fractography, Ductile/Brittle Failures, Chemical Attack, Stress Corrosion Cracking, Contamination and Corrosion Analysis, Particle Analysis/Identification, Filter Residue Analysis, Process/Manufacturing Problem Analysis, Root Cause Analysis, Research & Development, and Material Selection/Processing/Design Recommendations.

The tasks shall be performed using methods of chemical and gas analysis and other specialized techniques such as:

- X Ray Fluorescence Spectrometry
- Dispersive Infrared Spectroscopy
- Automated Gas Chromatography
- Thermoelectric Testing
- Coulometric Moisture Analysis
- Paramagnetic Oxygen Analysis
- Inductive Coupled Plasma Spectrometry
- Fourier Transform Infrared (FTIR) Spectrophotometry
- FTIR Microscopy and Attenuated Total Reflectance
- FTIR Photoacoustic Spectroscopy
- FTIR Transmission Gas Analysis
- Scanning Electron Microscopy: Includes Energy-Dispersive Spectrometry (EDS) and Wavelength-Dispersive Spectrometry (WDS) Microanalysis

Annually the contractor is required to report all chemicals and gases used by the laboratory and required to verify for correctness all of the labs MSDS's pertaining to the inventory. Contractor is required to maintain a Radiation License administered by the State of Mississippi.

Historical workload performed is included in Appendix A of Attachment 1. Workload deliveries for Gas and Material Analysis Services consist of 100% immediate turn around.

C.3.5 Environmental Laboratory Services

The Environmental Services Laboratory shall operate in accordance to approved methodology and standards set forth by the Occupational Safety and Health Association (OSHA), the National Institute of Occupational Safety and Health (NIOSH), the American Society for Testing and Materials (ASTM), the Department of Environmental Quality (DEQ), and Standard Methods for the Examination of Waters and Wastewaters. All services must be performed in accordance with appropriate methodology in accordance to strict environmental testing requirements set forth in such programs as:

- National Pollution Discharge Elimination system (NPDES),
- National Primary Drinking Water Regulations (NPDWR),
- Comprehensive Environmental Response Compensation and Liability Act (CERCLA),
- Resource Conservation and Recovery Act (RCRA),
- Safe drinking water Act (SDWA),
- American Public Health Association (APHA).

The laboratory will maintain a Quality Assurance Program Plan (QAPP) (DR RA01) to serve as the operational charter, defining the purpose, organizational structure, and operating principals for the Drinking Water Laboratory Certification Program. The contractor shall maintain the QAPP written in accordance with the "Manual for the Certification of Laboratories Analyzing Drinking Water, latest edition and to meet 40 CFR part 141; National Primary Drinking Water Regulations Implementation, 40 CFR part 142; National Secondary Drinking Water Standards.

The Contractor data must meet quality assurance standards, quality control (QA/QC) program following the guidelines established by the US EPA , *Standard Methods for the Examination of Water and Wastewater*, , SW-846 “test methods for evaluating solid waste”, and / or the US EPA Contract Laboratory Program. The contractor must maintain annual drinking water certification requirements per the EPA Drinking Water Certification Program through the State of Mississippi Department of Health laboratory per Clean Water Act Section 401 (state certification programs) 40 CFR 124.54. Mississippi’s certification program is monitored through the Mississippi State Department of Health and authority is granted to the state by the EPA. The scientific methodology used by the contractor certified laboratory must meet the minimum criteria established by the US EPA. The methods and quality control are highly documented and are readily available to the general public, Clean Water Act Section 310-303, 40 CFR part 131.

The contractor shall annually analyze Performance Evaluation Test Samples (PETS) for Certification process. The contractor must successfully analyze and achieved certification for 90% of the regulated analyses listed through the State’s program. The contract shall fully support onsite audits by the MS Department of Health certifying agency. The contractor laboratory will maintain ISO 14000 compliance under the Certifications retained by NASA Stennis Space Center .

The contractor must maintain microbiological certification through the Mississippi State Department of Health. The laboratory certification will be to analyze E. Coli and Total Coliform performance test samples on an annual basis.

The contractor must perform to Clean Water Act Section 402 (NPDES) 40 CFR Part 122 EPA Administered Permit Programs: The National Pollutant Discharge Elimination System (NPDES). NPDES discharge monitoring reports will be delivered to the NASA Environmental office signature ready. NPDES performance testing will be completed annually for all permitted analyses. Performance testing will be a part of the overall quality program for environmental services. The contractor shall supply hazardous waste services that comply with 40 CFR part 261.24 Toxicity characteristics.

The Contractor shall provide environmental laboratory services inclusive of field sampling to support the NASA/SSC environmental compliance program requirements. These services shall include ecological, chemical, physical, and biological testing and monitoring, as well as interpretation of test results and surveys. The Contractor shall also develop and maintain a master sampling plan and schedule for the sampling requirements for potable water, wastewater and the SSC cleanup program in accordance with the current SSC Site Microbiological Sample Plan, current SSC LTOMP, current Groundwater Monitoring System Plan for Solid Waste Management, and current NASA NPDES permit. It is the responsibility of laboratory management to work closely with NASA Environmental Office to maintain and track the Sampling plan. The sample plan is very dynamic and changes per NASA’s requirements. All changes shall be tracked and documented. This sample plan will include all known sampling at SSC including discretionary sampling, NPDES, potable water, ground water monitoring, landfill monitoring, underground storage tank monitoring, CERCLA monitoring including pump and treat facilities at a minimum. EPA method numbers, parameters, frequency and analyte list will be maintained. A full schedule of all planned events will be in the annual plan.

The Contractor shall staff scientific professionals to operate and maintain highly technical analytical and other ancillary laboratory equipment such as, AA spectrophotometer, ICP spectrophotometer, TOC analyzer, Ion liquid chromatograph, Gas Chromatograph/ Mass spectrometers, Flow injection ion analyzer, Auto samplers, Dissolved Oxygen meters, analytical balances, centrifuges, pH meters and microbiological equipment.

Additionally, the Contractor shall support NASA Environmental Office the development of study protocols for special projects, provide presentations, provide copies of archived data as necessary, and actively participate in the implementation of the SSC Environmental Management System that is based on the ISO 14001 standard. This is inclusive of providing a dedicated EMS Core Team member.

Contractor shall support and maintain compliance with EPCRA and SARA Title III : 40 CFR Parts 355 & 370 are mandatory for the contractor. Contractor shall maintain a compilation of Annual Hazardous Material

Inventory using the supplied electronic format. Hazard Communication Training Overview, SAA Management, knowledge and use of SSC BEMS Database, and Environmental Management Program Plan revisions are all requirements for the contractor. Provide input and environmental representative for Risk Assessment Updates with Environmental Working Group, support environmental inspections including flammable cabinets, storm-water drains, MSDS capabilities, hazardous material labeling, Support special projects for NASA Environmental Office as requested. Provide technical consultant for SSC Material Safety Data Sheet Database and SSC Affirmative Procurement interface with MSDS system, previous uses of pesticides at SSC, Research EPA, DOT, NFPA and OSHA regulations regarding hazardous materials, as required. Hazardous Material Handling, Fume Hood Certification. Contractor shall obtain a Mississippi DEQ Visual Emission Certification as an air emissions inspector and perform air emission inspections as required. Contractor shall provide support to the Environmental Emergency Response Team and participate in all requested activities.

Historical workload performed is included in Appendix A, Attachment 1. Workload deliveries for Environmental Laboratory Services are based on EPA regulations.

C.3.6 Natural Resource

The Contractor shall provide, when requested, due diligence surveys, natural resource management activities in accordance with the SSC Integrated National Resource Management Plan (INRMP), cultural resource activities per the SSC Historic Preservation Plan and the SSC Animal Control Procedures Plan that includes, but is not limited to, timber and wildlife management, animal and invasive species control, archaeological investigations, and wetland mitigation compliance/permitting activities. Ensure that all training requirements for performing designated tasks are maintained and kept current during the period of the contract. The Contractor shall also conduct annual vegetation surveys for the four wetland mitigation areas, which is inclusive of their maintenance.

Historical and Archeological Support requires the establishment and maintenance of working and professional relationships with professional archeologist and historians including the SSC Archeologist, SHIPPO representatives, USACOE staff and academia.

Maintain National Resource Management Team (NRMT) Animal Control Log. Manage wildlife program according to STENNIS SPACE CENTER (SSC) *Animal Control SOP-(latest addition)*, Monitor the health of the SSC deer herd responding to injured or diseased deer as needed on call. Manage the SSC feral hog program by maintaining the appropriate state and federal licenses, maintain records and database for periodic reports to SSC, State and federal agencies. Respond to nuisance animal calls as requested in a timely fashion (typically alligators, snakes, skunks, and domestic animals). Provide surveys for Threatened and Endangered (T&E) species along with delineations, monitoring and/or other inspections as requested by the NASA Environmental Office. Maintain the current SSC wildlife (blue bird, wood duck and bat) housing program; program may be expanded to other species as directed by NASA Environmental Office. Maintain records and provide reports of annual monitoring of the wildlife housing program. Assist in the placement and adoption of domestic animals when feasible; maintain adequate temporary facilities for the housing of domestics.

Invasive Species Control program includes maintaining a Mississippi Commercial Pesticide Applicators license and the purchase and maintenance of pesticide stocks and equipment as appropriate. Contractor shall be competent in use of commercial pesticide application equipment including calculating, mixing and delivering published pesticide rates. Maintain appropriate and accurate activity logs. Primary invasive species include Cogongrass, Chinese Tallow, *Salvinia minima*, Alligator weed, Water hyacinth, and other invasives as appropriate.

Timber management activities include planning and site preparation. Expertise in chemical and herbicide site treatment preparations is required. Oversight requirements of planting and harvesting operations by contractors including timber accounting seals, load tickets and liaison with regional timber mills shall be required. Prescribed burning in support of the timber management is a requirement. Training and certifications include Wildfire Fighters, basic and intermediate coursework certified by US Dept. of

Forestry and Certification as Burn Managers from MS Forestry Commission. Development and maintenance of an appropriate MS Forestry Commission Fire Plan. Fire prevention requirements include maintaining fire brakes within Fee Area and Buffer Zone as needed and debris removal as appropriate. The NMRT team maintains the SSC site weather station monitoring program including Liaison with National Weather Service (NWS) and utilization of the NWS WxCoder software to uplink daily weather data to NWS regional office.

Contractor shall perform to Clean Water Act Section 404 (Wetlands) 40 CFR Parts 22, 230, 231, 232, and 233 as required. Mitigation efforts shall include identification of potential special areas, develop mitigation plans, restoration of special areas per USACOE (corp of engineers) Wetlands Research Program Technical Report WRP-RE-19: *Engineering Specification Guidelines for Wetland Plant Establishment and Subgrade Preparation, (latest addition)*. In addition, Quarterly management and monitoring of Wetland Mitigation Special Areas as per *SSOP-8530-0005-ENV, (latest addition)*. A working knowledge of the USACOE General Permits *CELMK-OD-FE-14-19R31-17, CELMK-OD-FE-14-GPD, CELMK-OD-FE-14-10R31-17, and USACOE Compensatory Mitigation RB-SOP-96-01*. Special area maintenance includes monthly inspections including entrance gates, access roads, along with vandalism and debris control.

Wetland delineation requirements include a working knowledge of the USACOE requirements for performing wetland delineations and generation of approved wetland delineation reports using *USACOE Wetland Delineation Manual, (latest addition)* with COE approved reporting forms to achieve and maintain COE compliance. Special Area Credit Balance Accounting requires a working knowledge with *USACOE Charleston Method for Compensatory Wetland Mitigation Credits, (latest addition)*. Maintenance of mitigation credit records for NASA Environmental Office shall be required.

An expertise in plant taxonomy (with emphasis on hydrophytic species), ecology, soil taxonomy with emphasis on hydric soils, Surface and sub-surface soil hydrology and environmental science is required.

C.3.7 Environmental Geospatial Information System (EGIS)

The Contractor shall provide environmental geographic information system (EGIS) maintenance and support inclusive of cleanup sites, contamination trend analysis, and required reporting activities. General background knowledge requires a working familiarity with CERCLA and RCRA programs and an understanding of the Stennis facility and grounds. Spatial Visualization and Analysis for CERCLA Contamination Plume and Potentiometric Map Development and maintenance are required. Other requirements include Analysis of Side Scan Sonar Data of the Stennis Space Center Canal to Determine Potential Areas for Dredging; Infrastructure Layer Analysis to determine miles or square footage of Canal, Roads, Utilities, and Buildings Resident to Stennis Space Center; Application of NOAA National Hurricane Center Sea, Lake, and Overland Surge from Hurricanes Model Coupled with NOAA Coastal Storm Surge Inundation Model Builder Script to Determine Specific Hurricane Scenario Risks to Stennis Space Center. Remote sensing image processing is required utilizing pan sharpening, color balancing, raster mosaicking and tiling, band math, and LiDar data acquisition, conversion and processing. 3D Visualization requirements include 3D structure modeling in google sketch, model conversion to ESRI Geodatabase / Multipatch format, and model display in Google Earth and other compliant formats. Data organization and editing requirements include Global Positioning Systems Operation and Correction, SQL Server/ArcSDE Database Administration, Geometric and Tabular Data Editing, Data Acquisition, Digitizing, and Data Conversion. Programming requirements include Web Application Development in ArcGIS Server and ArcIMS, Custom Geoprocessing Analysis Automation using Python Scripting, and Batch Map Production using ArcObjects.

The EGIS team shall maintain at least one NASA certified Administrator; requirements include server acquisition, setup, and administration. Communication with the Stennis Data Center may include software installation and troubleshooting. Outreach, documentation and publications including metadata development, IT/GIS white paper document development, presentation graphic development, map series development, custom cartography and printing shall be required. The EGIS team may provide GIS support for other NASA centers, web application implementation and training. If other centers require GIS support this could be utilized under the demand CLIN.

(END OF CLAUSE)

(END OF SECTION)

ATTACHMENT 1, APPENDIX A

HISTORICAL WORK DATA - NASA DIRECT WORK

Historical Hours Expended - NASA Direct Work

Functional Area	Includes	Hours		
		FY 06	FY07	FY 08
Management & Administration	Managers, Analysts, Secretarial	3,429.2	3,002.0	3,566.4
Calibration	Technical Management, Metrologists, Metrology Technicians	31,954.6	28,538.0	34,733.3
Metrology Engineering	Lab / Senior Metrologists	1,165.4	1,304.7	2,795.6
Lab Support	Clerks, Couriers	5,040.3	4,671.7	4,153.7
Gas & Material Science	Scientists, Scientific Management	5,865.9	5,717.7	7,369.1
Environmental Science	Scientists, Scientific Management, Computer Operators, Environmental Technicians, Physical Science Technicians	16,840.3	15,726.3	17,115.0
EGIS / Natural Resources	Analysts, Scientists, Surveying Leads, Surveying Aids, Computer Operators	6,254.9	6,840.3	8,685.1
Quality & Safety	Analysts	2,425.1	2,421.9	3,268.7

Historical Actions Completed - NASA Direct Work

Measurement Standards and Calibration Services

SERVICE	FY06	FY07	FY08
Calibrations (Calibrating instruments to ensure accuracy is within accepted tolerance)	6134	5600	6026
Repairs (Fixing broken or damaged instruments)	375	244	289
Functionals (Calibration of an instrument that does not have a recall cycle)	218	116	96
Cleaning (Inpropellant service it is cleaning an instrument to specifications that is to be used in an oxygen service)	1103	977	935
Off Site Serviced	150	114	121
Adjusted (Sending instruments off site for calibration that have to be brought into specification)	584	560	646
Data Only (Same as adjusted but just adjustment without specifications)	45	44	53
INFORMATIONAL	FY06	FY07	FY08
Service Requests (Requests from the customer for a service)	6878	6228	6658
Manufacturer's Supported (Number of different manufacturers of meters, torque wrenches, gauges, etc.)	501	496	500
Unique Manufacturer/Model Number Supported (Of the manufacturers, number of different models of gauges, torque wrenches, meters, etc.)	2212	2199	2307
Average Calibration Interval (months)	7.06	7.07	7.28

In accordance with addendum to FAR 52.212-4(b) Variation in Estimated Quantity (page 8 of RFP) the historical baseline for Measurement Standards and Calibration Services shall be 8,166. The baseline was calculated by the sum of all service actions for the FY 08 category. The informational section is provided to show historical data.

Gas and Materials Analysis Services

SERVICE	FY06	FY07	FY08
Air Samples	90	86	144
Helium Samples	86	184	117
Oxygen Samples	63	39	56
Nitrogen Samples	174	167	256
Hydrogen Samples	81	227	176
Non-Volatile Residue	860	798	872
Hydraulic Fluid Samples	102	75	105
Condensable Hyd	103	24	17
Prepare Gas Stds for Customer	5	6	9
Fuel Samples (JP, RP1, and IPA)	3	4	4
Prepare Etchant/Chemicals	6	8	4
Contamination Samples – Tier 1 (Simple samples such as swabs to detect hydrocarbons and such)	22	6	4
Contamination Samples – Tier 2 (Complex sampling such as metals contamination)	12	6	4
Failure	4	5	4

In accordance with addendum to FAR 52.212-4(b) Variation in Estimated Quantity (page 8 of RFP) the historical baseline for Gas and Materials Analysis Services shall be 1,772. The baseline was calculated by the sum of all action for the FY 08 category.

Environmental Laboratory Services

SERVICE	FY06	FY07	FY08
Base – Permitted Analyses (Analyses permitted by the state for specific water outfalls into a state water system)	3676	3676	3676
Base – Discretionary Analyses	195	195	195
CERCLA			
*Site A Analyses	224	224	224
*Site B Analyses	3238	3238	3238
*Site C Analyses	1620	1620	1620
*Site D Analyses	1642	1642	1642
*Site E Analyses	1642	1642	1642
*Landfill Analyses	300	300	300
*Area F Analyses	2208	2208	2208
*Area G Analyses	2300	2300	2300

* Refer to site map for location

In accordance with addendum to FAR 52.212-4(b) Variation in Estimated Quantity (page 8 of RFP) the historical baseline for Environmental Laboratory Services shall be 17,045. The baseline was calculated by the sum of all action for the FY 08 category.

HISTORICAL WORK DATA - DEMAND WORK

Historical Hours Expended - Demand Work

Functional Area	Includes	FY 06 Hours	FY 07 Hours	FY 08 Hours
Management & Administration	Managers, Analysts, Secretarial	1,469.6	1,286.6	1,528.4
Calibration	Technical Management, Metrologist, Metrology Technicians	13,694.8	12,230.6	14,885.7
Metrology Engineering	Metrologist	499.5	559.1	1,198.1
Lab Support	Clerks, Couriers	2,160.1	2,002.1	1,780.2
Gas and Materials Analysis Services	Scientists, Scientific Management	2,513.9	2,450.4	3,158.2
Environmental Laboratory Services	Scientists, Scientific Management, Computer Operators, Environmental Technicians, Physical Science Technicians	7,217.3	6,739.8	7,335.0
EGIS / NR	Analysts, Scientists, Surveying Leads, Surveying Aids, Computer Operators	2,680.7	2,931.6	3,722.2
Quality & Safety	Analysts	1,039.3	1,037.9	1,400.9

Historical Actions Completed - Demand Work

Measurement Standards and Calibration Services

SERVICE	FY06	FY07	FY08
Calibrations (Calibrating instruments to ensure accuracy is within accepted tolerance)	2024	1848	1988
Repairs (Fixing broken or damaged instruments)	123	81	95
Functionals (Calibration of an instrument that does not have a recall cycle)	72	38	32
Cleaning (Inpropellant service it is cleaning an instrument to specifications that is to be used in an oxygen service)	364	322	308
Off Site Serviced	50	38	40
Adjusted (Sending instruments off site for calibration that have to be brought into specification)	193	185	213
Data Only (Same as adjusted but just adjustment without specifications)	15	17	53
INFORMATIONAL	FY06	FY07	FY08
Service Requests (Requests from the customer for a service)	2270	2055	2197
Manufacturer's Supported (Number of different manufacturers of meters, torque wrenches, gauges, etc.)	501	496	500
Unique Manufacturer/Model Number Supported (Of the manufacturers, number of different models of gauges, torque wrenches, meters, etc.)	2212	2199	2307
Average Calibration Interval (months)	7.06	7.07	7.28

Gas and Materials Analysis Services

SERVICE	FY06	FY07	FY08
Air Samples	30	28	47
Helium Samples	28	61	39
Oxygen Samples	21	13	18
Nitrogen Samples	57	55	84
Hydrogen Samples	26	75	58
Non-Volatile Residue	284	263	287
Hydraulic Fluid Samples	34	25	34
Condensable Hyd	33	8	5
Prepare Gas Stds for Customer	1	2	3
Fuel Samples (JP, RP1, and IPA)	1	1	1
Prepare Etchant/Chemicals	2	3	1
Contamination Samples – Tier 1 (Simple samples such as swabs to detect hydrocarbons and such)	22	6	4
Contamination Samples – Tier 2 (Complex sampling such as metals contamination)	12	6	4
Failure Analyses	4	5	4

Environmental Laboratory Services

SERVICE	FY06	FY07	FY08
Demand Analyses (Analyses of unknowns such as the pit discovered in bldg 3204 where the customer wanted the liquid tested and was discovered to have PCBs, lead, etc.)	800	800	800

**ATTACHMENT 1, APPENDIX B
HISTORICAL MATERIALS**

The following list provides the historical materials used to support the work identified in the PWS. The Contractor is responsible for ensuring all materials are available to support services in accordance with the PWS. Historically these items have cost \$380,000 a year.

Historical Measurement Standards and Calibration Laboratory Materials

Item	Category	Item	Category
Corrosion-X Lubricant	Chemical	Paper, Litmus, pH	General
Distilled Water	Chemical	Quick Freeze	General
Dow Corning 200(R) Fluid, 1.5 CST (Silicon oil)	Chemical	Starrett M1	General
Dow Corning Halocarbon 0.8	Chemical	Tape, anti-seize	General
Dow Corning Oil 200.05	Chemical	Tape, electrical	General
Dow Corning Oil 200.20	Chemical	WD40	General
Dow Corning Oil 710	Chemical	Wipes, K-dry/Tech	General
Dow Corning Silthym 800	Chemical	Calendar, desk & wall	Office
Edwards Ultragrade 19	Chemical	Paper, copy	Office
Envy Instant Cleaner	Chemical	Paper, notes	Office
Fluid, DHI Lubricating	Chemical	Pencils, markers, water proof	Office
Flux Remover	Chemical	Printer, labels	Office
Freon T-P 35 Solvent	Chemical	Staples, 210 strip	Office
Glycerine	Chemical	Tape, scotch	Office
GP Mech Pump Fluid	Chemical	Earplugs, safety	Safety
Grease, Krytox 240AC	Chemical	Glasses, safety	Safety
Halocarbon 0.8 Oil	Chemical	Shoes, safety	Safety
Halocarbon Oil 4.2	Chemical	Tape, safety	Safety
HE-200 Vacuum Pump Oil	Chemical	Aeroduster	General
Isopropanol HFLC	Chemical	Applicators, cotton tipped	General
Leak Detector	Chemical	Batteries, vdc	General
Liquid Wrench	Chemical	Brushes, wire	General
Lithium Complex Grease	Chemical	Button Batteries	General
Lock-tite Torq seal	Chemical	Cable Ties	General
Lube Fluid DI-2 Ethyl Hexyl	Chemical	Clean Room, humidity indicators	General
Marvel Lubricating Oil	Chemical	Clean Room, bags	General
Meriam Blue (1.75)	Chemical	Clean Room, tape	General
Meriam Blue (2.0)	Chemical	Clean Room, tubing/poly	General
Meriam Green	Chemical	Desiccant, bags	General
Meriam Red	Chemical	Fantastik	General
Meriam Yellow	Chemical	Liquid Wrench	General

ATTACHMENT 1

Amendment 001

Oil, Lubricant	Chemical
Item	Category
Safezone Cleaning Solvent	Chemical
Sebucate Fluid	Chemical
Sherlock Leak Detector	Chemical
Solvent, AK-225g	Chemical
Spinestic 22	Chemical
Starrett M1 Lube	Chemical
Sucrose	Chemical
Vaccum Pump Oil	Chemical
Varian GP Pump Oil	Chemical
Calibration Void, labels	Decals
Calibration, labels	Decals
10ppm O2	Gas
Connector Plus	Chemical
PC-101 Protective Coating	Chemical
1650 ppm CO2	Gas

Loctite	General
Item	Category
2.5% CH4 MIX	Gas
25% O2	Gas
25ppm CH4	Gas
3% CO2	Gas
300ppm CO	Gas
50% He/50% AIR	Gas
LN2	Gas
1.45% CH4 MIX	Gas
100% He	Gas
100% N2	Gas
100ppm ISOBUTYLENE	Gas
OCL Lube	General

ATTACHMENT 1

Amendment 001

Historical Environmental Laboratory Materials

Item	Category
1,1,2-Trichlorotrifluoroethane	Chemical
1-Butanol	Chemical
1-heptanesulfonic Acid	Chemical
2008 CAL-1	Chemical
2-Bromopropionic Acid Solution pps-300	Chemical
2-Chloroethyl Vinyl Ether Standard	Chemical
2-Propanol	Chemical
4,4 Dibromobiphenyl Solution	Chemical
4,4 Dibromobiphenyl Solution	Chemical
4,4'-Dichlorobiphenyl Solution PPS-120	Chemical
508.1 Calibration Mix #1 32094	Chemical
508.1 Calibration Mix #2 32095	Chemical
508.1 Calibration Mix #3 32096	Chemical
515.4 Calibration Mix 32443	Chemical
525.2 Fortification Recovery Std 31828	Chemical
525.2 Semivolatiles Mix 31899	Chemical
8260 Internal Standard Mix	Chemical
8330 Cal Mix #1	Chemical
8330 Cal Mix #2	Chemical
8330 Internal Std	Chemical
8330 Surrogate	Chemical
Acetic Acid, Glacial	Chemical
Acetone	Chemical
Acetonitrile	Chemical
Acid Matrix SpikeMix 31005	Chemical
Acrolein-Acrylonitrile Mix	Chemical
Acrylonitrile	Chemical
Aluminum	Chemical
Aluminum Oxide	Chemical
AMCO CLEAR® Turbidity Primary Standard	Chemical
Ammonium acetate	Chemical
Ammonium chloride	Chemical

Item	Category
BOD nutrient buffer pillows	Chemical
Borate Buffer Solution	Chemical
Boron	Chemical
Bromate	Chemical
Bromide	Chemical
Bromoacetic Acid Solution epa-1199	Chemical
Bromochloroacetic Acid Solution epa-1201	Chemical
Buffer solution pH 10.01	Chemical
Buffer solution pH 4.01	Chemical
Buffer solution pH 7.01	Chemical
Cadmium	Chemical
Calcium	Chemical
Calcium Carbonate	Chemical
Calcium Chloride	Chemical
Carbamate standards	Chemical
Carbon std. Inorganic	Chemical
Carbon std. Organic	Chemical
Celite 545	Chemical
Cesium Chloride	Chemical
Cetyltrimethylammonium bromide, 99+% (tlc)	Chemical
Chlorac buffer	Chemical
Chloramine-T	Chemical
Chlorate	Chemical
Chloride	Chemical
Chlorinated Herbicides Acids Mix HBM-5153A	Chemical
Chlorinated Herbicides Mix HBM-5155A	Chemical
Chlorinated Herbicides Mix HBM-5155M	Chemical
Chlorinated Herbicides Mixture HBM-8150A	Chemical
Chlorine Dioxide Reagent 1	Chemical
Chlorine Dioxide Reagent 2	Chemical
Chlorine Dioxide Reagent 3	Chemical
Chlorite	Chemical

Historical Gas and Material Science Laboratory Materials

Item	Category	Item	Category
Acetone	Chemical	Dessicant	General
Air It	Chemical	Fittings	General
AK225g	Chemical	FTIR Cuvettes	General
Alloy and Material Stds	Chemical	GC Accessories (Columns & Gas Valves)	General
Anolyte	Chemical	Glassware	General
Catholyte	Chemical	Hydraulic Oil Bottles	General
Chlor-N-Oil Kits	Chemical	K or Kim Wipes	General
Conductivity Standards	Chemical	Millipore Filter Pads	General
Glassware Soap	Chemical	Moisture Analyzer Cells	General
Hydranal Standards	Chemical	O Rings / Elastomers	General
Hydranal Titrant	Chemical	Permacel / Clean Room Tape	General
Hydrochloric Acid	Chemical	pH Strips (Multiple Ranges)	General
IPA	Chemical	Plastic Sample Cups	General
Iron Analysis Standards	Chemical	Pressure Gauges	General
Kerosene	Chemical	Regulators & Rupture Discs	General
Mineral Oil	Chemical	Relief Devices	General
pH Buffers	Chemical	SEM Supplies	General
Snoop	Chemical	Swabs	General
Sodium Chromate	Chemical	Technical References	General
TAN Titrant and Solvent	Chemical	Teflon Bottles	General
Tetrachloroethylene	Chemical	Teflon Tape	General
Toluene	Chemical	Trace Oxygen Sensors	General
Vacuum Pump Oil	Chemical	Tubing (SS and Tygon)	General
Liquid Nitrogen	Cryogen	Vacuum Gauge Sensors	General
DO NOT USE labels	Decals	Valves	General
No Calibration Required	Decals	Various FTIR Cells	General
2%H in Air	Gas	Waste and Spill Containers	General
Air (Pure)	Gas	DI Water Cartridges	General
Air Calibration Gas	Gas	Disposable Pipette Tips	General
Argon (Pure)	Gas	Disposable Pipettes	General
Helifuel	Gas	H2 Generator Resin Bags	General
Helium (Pure)	Gas	Binder Clips	Office
Helium Calibration Gas	Gas	Card Stock	Office
Hydrogen (Pure)	Gas	Copy Paper	Office
Hydrogen Calibration Gas	Gas	File Folders	Office
Nitrogen Calibration Gas	Gas	Log Books	Office
P10 Fuel Gas	Gas	Staples	Office
Oxygen Calibration Gas	Gas	Printer Ink Cartridges / Toner	Office

ATTACHMENT 1**Amendment 001**

Item	Category
Nitrogen (Pure)	Gas
Batteries	General
Clean Room bags	General
Clean Room Wipes	General
Copper Crush Washers	General
Aluminum Foil	General
Aluminum Weighing Pans	General
Labels	Office
Pens	Office
Paper Clips	Office

Item	Category
Safety Glasses	Safety
Gloves	Safety
Goggles	Safety
Lab Coats	Safety
Safety Shoes	Safety

Historical Natural Resources Materials

Item	Category
Invasive species herbicides	chemical
DO NOT USE labels	Decals
shop towels	General
field log books	mitigation
Marking or surveying tape	mitigation
small tools	mitigation
Copy Paper	Office
Ink pens	Office
Insecticide - repellent	safety
Safety Glasses	Safety

Historical Safety Office Materials

Item	Category
safety glasses	Safety
safety goggles	Safety
ergonomic wrist support mouse pads	Safety
ergonomic keyboard wrist rests	Safety
ergo back supports	Safety
ergo foot rests	Safety
safety gloves	Safety
hard hats	Safety
safety signs	Safety
safety caution tape	Safety
IH sampling monitors	Safety
safety forms / tags	Safety
LOTO Material	Safety
Ear plugs	Safety

Historical Office Materials

Item	Category
Stamp ink	General
Storage boxes	General
Appointment books	Office Supplies
Binder clips	Office Supplies
Binders	Office Supplies
Blank writable CDs	Office Supplies
Blank writable DVDs	Office Supplies
CD/DVD cases	Office Supplies
Clip boards	Office Supplies
Computation books	Office Supplies
Day planners	Office Supplies
Desk calendars	Office Supplies
Desktop stackable trays	Office Supplies
Envelopes	Office Supplies
Expandable desk files	Office Supplies
FedEx supplies	Office Supplies
File flags	Office Supplies
File pockets	Office Supplies
Filler paper	Office Supplies
Hanging folders	Office Supplies
High-lighters	Office Supplies
Hole punchers	Office Supplies
Hole reinforcements	Office Supplies
Index cards	Office Supplies
Ink	Office Supplies
Ink pads	Office Supplies
Ink stamps	Office Supplies
Lysol	Safety Supplies
Antibacterial wipes	Safety Supplies

Item	Category
Laminating pouches	Office Supplies
Letter openers	Office Supplies
Manilla folders	Office Supplies
Packaging tape	Office Supplies
Paper clops	Office Supplies
Pencil lead	Office Supplies
Pencil sharpeners	Office Supplies
Pencils	Office Supplies
Pens	Office Supplies
Post-it Notes	Office Supplies
Printer cartridges	Office Supplies
Printer labels	Office Supplies
Printer toner	Office Supplies
Push pins / tacks	Office Supplies
Record books	Office Supplies
Ring binder indexes	Office Supplies
Rubber bands	Office Supplies
Scissors	Office Supplies
Scotch tape	Office Supplies
Sharpies	Office Supplies
Sheet protectors	Office Supplies
Staplers	Office Supplies
Staples	Office Supplies
Steno pads	Office Supplies
Storage boxes	Office Supplies
Tape dispensers	Office Supplies
Wall calendars	Office Supplies
Wall files	Office Supplies
Whiteout	Office Supplies

Categories key	
Chemical	Process Chemicals
Decals	Calibration Decals
Gas	Calibration or Process Gases
General	General Supplies
Glass	Glassware
Office	Office Supplies
Safety	Safety Supplies
Other	Does not fit one above

ATTACHMENT 2 (Overview)

Data Requirement Documents (DRD) Overview

DM01	Plan, Documentation & Records Management Programs
DM02	Index, Records Master List/Files
EA01	Delivery of Test Support Data
EA02	Access to critical Technical Test Support Data
EN01	Report, Drinking Water Microbiological
EN02	Reports, Wetland Mitigation Monitoring
EN03	Report, National Pollutant Discharge Elimination System (NPDES)
EN04	Report, Semi-Annual Groundwater
EN05	Report, Laboratory Certification Program
EN06	Report, CERCLA Long Term Monitoring
LS01	Procedures, Property Control & Administration
MA01	List, Owners, Officers, Directors, and Executive Personnel
MA02	Plan, Emergency
MA03	Report, Equal Employment Opportunity
MA04	Yearly Activity Report
MA05	Contract End Material Inventory List
MF01	Report, Electronic Monthly Cost Data
MF02	Report, Monthly Cost and Workforce Management
MF03	Report, Cost Exceeding 85% of SWR Estimate
MF04	Report, Cost Exceeding 100% of SWR Estimate
MF05	Report, Occupancy
MF06	Report, CLIN 002 Accumulated Expenditures
MF07	Report, Overhead and Material Charge for Demand Work
PC01	Report, Liability to Third Person(s)
PC02	Certificate/Policy Insurance
PC03	Organizational Conflict of Interest Avoidance Plan (OCI) Information
PT01	Plan, Automated Information Security
PT02	Report, Automated Information Security Incident
RA01	Plan, Quality Program
RA02	Plan, Personnel Certification
RA03	Report, Quality Status
SA01	Plan, Safety and Health
SA02	Procedures, Safety
SA03	Report, Accident/Incident
SA04	Report, Accident Experience

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

DM01

Contract Number & Date

Title

Plan, Documentation & Records
Management Programs

Responsible Office

Information Management
Division

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution:

Approval – Information Management Division, Records Manager

Concur – COTR

Information – DA00 Contracting Officer

Initial Submittal Date

120 days following start of contract.

As of Milestone

Start of contract or revisions thereof.

Frequency of Submittal

Reviewed Quarterly and necessary revisions submitted for approval. *If no revisions necessary, submit letter in CDS stating completion of quarterly review.

DATA REQUIREMENT DESCRIPTION

Purpose

To define the total program required to establish, administer, maintain, disposition, and control Documentation and Records Management.

Scope

This Data Requirement Description establishes the requirement for the preparation of a Documentation Management Program Plan covering the contractor's policies and objectives for the organization, implementation, and control of documentation required for operation and/or support of the SSC. Provide records outline/index from each Division and staff office, including Video Services, with descriptions of NASA records maintained, the records retention authority and disposition.

ATTACHMENT 2

NASA Records Management, NPD 1440.6, NASA Records Retention Schedules (NRRS), NPG 1441.1; NAR General Records Schedules (GRS); 36 CFR, Chapter XII, Subchapter B, Records Management; SOW, Documentation and Records Management

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

This plan shall provide the identity of all elements of program function including organizational pattern (i.e. relationship to line and staff), implementation policy and procedures, the subcontractor interface, and the reporting and control system for functions outlined in the plan.

The outlined program shall provide the assurances, planning, maintenance, and control of documentation requirements of the contract as specified in this DPD.

The plan shall outline the contractor's proposed controls and processes, as necessary to define the documentation distribution control system. The plan shall define, but not be limited to, the following:

- A Requirements, including implementation and operational methods
- B The plan shall list all acronyms used
- C The plan will depict a hierarchy of documents from contracts requirements through implementing and operational documents
- D The plan shall describe all document processes used and shall include flow charts
- E The plan shall depict the process of document initiation, approval, implementation, and methods of revision
- F Reporting and submittal
- G Modifications or changes
- H The plan will address a system for the management of records and disposition of files

The type of documents to be placed on automatic distribution, specials, and single outputs shall be clearly defined as an integral part of the control plan. The distribution flow plan shall also be included in the initial presentation of the plan.

The plan shall be submitted on 8 ½ x 11" paper, with appropriate cover as required and electronic word format. The use of charts, graphs, forms, etc., shall be used as necessary to provide definition and clarity of process. The plan shall be reviewed at least quarterly and necessary revisions submitted for approval.

Remarks

None

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

DM02

Contract Number & Date

Title

Index, Records Master List/Files

Responsible Office

Center Operations
Directorate

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution:

Approval –Chief, Information Management Division TO, Office of the Chief
Information Officer
Concur – Records Manager
Information – Contracting Officer

Initial Submission Due

120 days following start of contract.

As of Milestone

Not later than June 30

Frequency of Submittal

Annually

DATA REQUIREMENT DESCRIPTION

Purpose

To provide an index of all records generated and maintained under the contract that show disposition and archival requirements in accordance with federal regulations and NASA requirements.

Scope

This Data Requirement Description provides the recommendation for the establishment of a files system and requirement of the development of a records master list/files index from each division and staff office, including Video Services and shall include the Agency File Scheme (AFS) number, descriptions of NASA records maintained, the records disposition and authority per NPR 1441.1.

ATTACHMENT 2

References

NASA Records Management, NPD 1440.6, NASA Records Retention Schedules (NRRS), NPR 1441.1; NARA General Records Schedules (GRS); 36 CFR, Chapter XII, Subchapter B, Records Management.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

This index shall provide the identity of all NASA records being generated in the performance of the contract and shall include Agency File Scheme (AFS) number, the descriptions of NASA records maintained, the records disposition and the authority per NPR 1441.1

The records master list/plan shall be submitted in accordance with format in Appendix B of System Level Procedure (SPR 1441.1) and entered in the SSC Master Records Index (MRI) database.

The Index shall be updated as changes occur and/or reviewed and updated by December 31st each year.

Remarks

None

DATA REQUIREMENT

DR Number, Date Revised

EA01

Contract Number & Date

Title

Delivery of Test Support Data

Responsible Office

Engineering and Test
Directorate, E&TD (EA00)

SUBMITTAL REQUIREMENTS Distribution Instructions

Electronic and Hard Copy Distribution

Approval – Director of Engineering and Test Directorate
Information – Chief Information Officer
Contracting Officer
Office Safety and Mission Assurance - Manager

Initial Submittal Date

30 days following start of contract.

As of Milestone

As requested and monthly

Frequency of Submittal

As requested by SSC test/test support facilities personnel or at least monthly to E&TD, by 5th day of previous month.

DATA REQUIREMENT DESCRIPTION

Purpose

To define acceptable formats required to transfer critical information used to support propulsion testing at Stennis Space Center.

Scope

This Data Requirement Description establishes the requirement for delivery of data produced, in a format that can be utilized by the SSC test areas and test support facilities.

References

NPR 7123.1 Systems Engineering, and Stennis Operational Instruction, SOI-8080—0027.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

Calibration data and calibration monthly due list shall be provided in electronic format that is compatible with Open Database Connectivity (ODBC) type databases” or CSV compatible format. Electronic monthly report should be listed by ECN numerically and loaded into E&TD Drop Box in the DDMS system, under EA00 Project.

Remarks

None

DATA REQUIREMENT

DR Number, Date Revised

EA02

Contract Number & Date

Title

Access to Critical Technical Test Support Data

Responsible Office

Engineering and Test Directorate, E&TD (EA00)

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution and Hard Copy Distribution
Approval – Director of Engineering and Test Directorate
Information – Chief Information Officer
Contracting Officer
Office Safety and Mission Assurance - Manager

Initial Submittal Date

30 days following start of contract.

As of Milestone

As requested

Frequency of Submittal

As requested by SSC test/test support facilities personnel

DATA REQUIREMENT DESCRIPTION

Purpose

To define requirements to allow test and test support personnel electronic read access to critical technical data residing in providers' systems.

Scope

Includes all information relative to Test and Test Support Facilities and specifically instruments and tools used in testing.

References

NPR 7123.1 Systems Engineering, and Stennis Operational Instruction, SOI-8080—0027.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

Shall provide capability for test and test support personnel to read, search, sort, print and export a report of critical technical data, current and historical. Examples of critical data that needs to be searched on are:

- 1) Instrument or Tool Name
- 2) Instrument or Tool Range
- 3) Model number
- 4) ECN Barcode
- 5) Location
- 6) Vendor
- 7) Test Stand & Cell (if relevant)
- 8) SWR Number serviced under or Project Name

Remarks

None

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

EN01

Contract Number and Date

Title

Report, Drinking Water
Microbiological

Responsible Office

Environmental
Management Office

SUBMITTAL REQUIREMENTS

Distribution Instructions

Approval – Environmental Officer
Information –Assistant, Aerospace Environmental Control Techniques.

Initial Submittal Date

COB/Mar 22, 2010

As of Milestone

Last day of Calendar Month

Frequency of Submittal

Monthly

DATA REQUIREMENT DESCRIPTION

Purpose

To provide the Government and the Mississippi Department of Health with a summary report of the microbiology data for the SSC drinking water. The Official File Number 8530.16.G

Scope

This Data Requirement (DR) establishes the requirement for the monthly submittal of microbial data for the potable water supply system.

ATTACHMENT 2

References

Safe Drinking Water Act (SDWA) Title 49 Chapter 17 of Mississippi Safe Drinking Water Law of 1976. Mississippi Health Department Form Number 425.

Exceptions/Additions to Referenced Requirements

Subject to regulatory requirement revisions.

Preparation Instructions

This report summarizes the monthly microbiological analyses for the potable (drinking) water.

Report will be submitted on Mississippi Health Department Form Number 425, original and forwarding cover letter to NASA Environmental Office. Second copy submitted into NASA Contract Deliverable System with cover letter stating delivery of original to NASA Environmental Office.

Data Retained by respondent to be made available to procuring activity upon request. The respondent shall furnish a list to procuring activity upon request.

Remarks

Submission of one (1) original each to Environmental Officer. DRD will not be considered complete without the following: 1) Cover letter ready for signature of NASA Official. 2) SSC Official File Number and copy ready to be filed in SSC Environmental Files.

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

EN02

Contract Number and Date

Title

Reports, Wetland
Mitigation Monitoring

Responsible Office

Environmental
Management Office

SUBMITTAL REQUIREMENTS

Distribution Instructions

Hard Copy Distribution:
Approval – Environmental Officer
Information – Assistant, Aerospace Environmental Control Techniques.

Initial Submittal Date

October 15, 2010.

As of Milestone

As of the end of the month.

Frequency of Submittal

Annually

DATA REQUIREMENT DESCRIPTION

Purpose

To provide the Government a report summary of mitigation monitoring activities for submission to the Corps of Engineers, Official File Numbers are: 8570.17.D

Scope

This Data Requirement (DR) establishes the requirement for upgrading of Mitigation Plans for conducting annual monitoring activities at each of the mitigation areas covered by the three (3) permits listed in item 14. Provide reports of this monitoring for the three permits.

ATTACHMENT 2

References

Permit #CELMK-OD-FE14-10R31-17, CELMK-OD-FE14-19R31-17, & CELMK-OD-FE14-GPD.

Exceptions/Additions to Referenced Requirements

Subject to regulatory requirement revisions.

Preparation Instructions

This report provides the monitoring data summary for the wetland mitigation areas.

Report will be submitted electronically in format required by each referenced permit.

Data submitted to procuring activity for review no later than three weeks prior to project implementation. Data shall be considered approved unless contractor has been notified of disapproval prior to project implementation.

Remarks

Submission of one (1) copy each to Environmental Officer. DRD will not be considered complete without the following: 1) Cover letter ready for signature of NASA Official. 2) SSC Official File Number and copy ready to be filed in SSC Environmental Files.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

EN03

Contract Number and Date

Title

Report, National Pollutant
Discharge Elimination System
(NPDES)

Responsible Office

Environmental
Management Office

SUBMITTAL REQUIREMENTS

Distribution Instructions

Hard Copy Distribution:
Approval – Environmental Officer
Information – Assistant, Aerospace Environmental Control Techniques

Initial Submittal Date

March 20, 2010

As of Milestone

20th of each month.

Frequency of Submittal

Monthly

DATA REQUIREMENT DESCRIPTION

Purpose

To provide the Government and Mississippi Department of Environmental Quality (MDEQ) a summary of analyses from specific outfall discharge points as identified in the NPDES Permit. The Government shall receive a copy of data for each sample date. The Official File Number 8532.3.B

ATTACHMENT 2

Scope

This Data Requirement (DR) is required in the Environmental Laboratory Services Section of the contract and establishes the requirement for documenting, developing and submittal of monthly reports to summarize the lab analyses from specific outfalls per parameters listed in the Permit. Additionally, the contractor shall develop and maintain the SSC Sampling Plan.

References

3.1.6, SOW; Clean Water Act (CWA) & NPDES Permit #MS0021610; EPA Form # 3320-1.

Exceptions/Additions to Referenced Requirements

Subject to regulatory requirement revisions.

Preparation Instructions

This report provides the summary data for specific outfalls as well as for each sample collection period.

Report will be submitted on EPA Form #3320-1 or electronically, original and forwarding cover letter to NASA Environmental Office. Second copy submitted into NASA Contract Deliverable System with cover letter stating delivery of original to NASA Environmental Office.

Data submitted to procuring activity for review no later than three weeks prior to project implementation. Data shall be considered approved unless contractor has been notified of disapproval prior to project implementation. Contractor is required to coordinate with NASA Environmental Officer (EO) and the FOSC EO

Remarks

Submission of one (1) copy each to Environmental Officer. When done electronically the paper trail will not be necessary as noted below. DRD will not be considered complete without the following: 1) Cover letter ready for signature of NASA Official. 2) SSC Official File Number and copy ready to be filed in SSC

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

EN04

Contract Number and Date

Title

Report, Semi-Annual
Groundwater

Responsible Office

Environmental
Management Office

SUBMITTAL REQUIREMENTS

Distribution Instructions

Approval – Environmental Officer
Information – Assistant, Aerospace Environmental Control Techniques

Initial Submittal Date

As of Milestone

As of 20th of the month.

Frequency of Submittal

Twice yearly in February and July.

DATA REQUIREMENT DESCRIPTION

Purpose

For NASA Environmental Office records and submission to Mississippi Department of Environmental Quality (MDEQ) Official File Number 8533.5.A.2.

Scope

This Data Requirement establishes the requirement for the collection and analysis of samples from the SSC landfill area. The data must be statistically evaluated and developed into a report for submission to MDEQ.

ATTACHMENT 2

References

Resource Conversation & Recovery Act (RCRA). Permit #SW 02401B0376.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The data shall be based on six months of groundwater monitoring well data from pertinent landfill locations, as identified in the SSC Landfill Groundwater Monitoring Plan. The report is based on the requirements of the MDEQ and reflects the statistical evaluation of collected data.

Report will be submitted on 8-1/2" x 11" paper or CD. Data must be stored electronically.

Data submitted to procuring activity for review no later than three weeks prior to project implementation. Data shall be considered approved unless contractor has been notified of disapproval prior to project implementation.

Remarks

Submission of one (1) copy each to Environmental Officer. DRD will not be considered complete without the following: 1) Cover letter ready for signature of NASA official. 2) SSC Official File Number and copy ready to be filed in SSC Official Environmental Files. SSC Official File Number.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

EN05

Contract Number and Date

Title

Report, Laboratory
Certification Program

Responsible Office

Environmental
Management Office

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution

Hard Copy Distribution:

Approval – Environmental Officer

Information – Assistant, Aerospace Environmental Control Techniques

Initial Submittal Date

When requested by Environmental Officer.

As of Milestone

As of date of request.

Frequency of Submittal

As requested.

DATA REQUIREMENT DESCRIPTION

Purpose

Provides QA certification results, along with corrective actions if required. Official File Number 8532.3.B

Scope

This Data Requirement (DR) establishes the requirement for the submittal of maintenance of laboratory data for the Mississippi Department of Health certification of the SSC Environmental Laboratory.

ATTACHMENT 2

References

Mississippi Department of Health. Safe Drinking Water Act (SDWA) Title 49 Chapter 17 of Mississippi Safe Water Law of 1976. EPA Certification Manual for Laboratories Analyzing Drinking Water.

Exceptions/Additions to Referenced Requirements

Subject to regulatory requirements & revisions.

Preparation Instructions

The report summarizes the QA activity and all pertinent supporting documentation.

8 ½ x 11 paper or electronically per the direction on the Government of the U.S. Environmental Protection Agency.

Data retained by respondent to be made available to procuring activity upon request. The respondent shall furnish a list to procuring activity upon request.

Remarks

One (1) copy each must be delivered with 1) Cover letter ready for signature of NASA Official and 2) SSC Official File Number and copy ready to be filed in SSC Official Environmental Files.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

EN06

Contract Number and Date

Title

Report, CERLA Long
Term Monitoring

Responsible Office

Environmental
Management Office

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution

Hard Copy Distribution:

Approval – Environmental Officer

Information – Assistant, Aerospace Environmental Control Techniques

Initial Submittal Date

One (1) copy each must be delivered with 1) Cover letter ready for signature of NASA Official and 2) SSC official File Number and copy ready to be filed in SS Official Environmental Files.

As of Milestone

When Requested by the Environmental Officer.

Frequency of Submittal

As requested by the Environmental Officer.

DATA REQUIREMENT DESCRIPTION

Purpose

For NASA Environment Officer record and submission to Mississippi Department of Environmental Quality (MDEQ), Official File number 8530.20 H.

Scope

This Data Requirement (DR) establishes the requirement for the collection and analysis of samples from the SSV Hazardous Waste Clean Up Area. The data must be evaluated and developed onto a report for submission to MDEQ.

ATTACHMENT 2

References

Resource Conservation and recovery Act (RCRA), CERCLA Program Documents (Decision Documents for Clean Up Areas A-1), SSC Long-Term Monitoring Program Plan.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The data shall be based on a prescribed groundwater monitoring program for each of the pump and treat systems. This is also applicable to any other wells associated with the SSC Long term Monitoring Program for the Clean up Areas. 8 ½ x 11 paper, data should be stored electronically.

Data submitted to procuring activity for review no later than three weeks prior to project implementation. Data shall be considered approved unless contractor has been notified of disapproval prior to project implementation.

Remarks

One (1) copy each must be delivered with 1) Cover letter ready for signature of NASA Official and 2) SSC Official File Number and copy ready to be filed in SSC Official Environmental Files.

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

LS01

Contract Number and Date

Title

Procedures, Property
Control & Administration

Responsible Office

Institutional Services
Division

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Approval – Supply & Equipment Management Office

Initial Submittal Date

60 days after contract start.

As of Milestone

As of start of contract & revisions thereof.

Frequency of Submittal

One time and revisions.

DATA REQUIREMENT DESCRIPTION

Purpose

To identify the methods of controlling and administering property at SSC.

Scope

This Data Requirement Description (DRD) establishes the requirements for the preparation of procedures covering the contractor's methods of implementing all elements of an integrated property control and administration program.

ATTACHMENT 2

References

SOW 1.2.6; NPR 4100.1, NASA Materials Inventory Management Manual; NPR 4200.1, NASA Equipment Management Manual; NPR 4200.2, Equipment Management Manual for Property Custodians; NPR 4300.1, NASA Personal Property Disposal Procedures and Guidelines, NPR 4310.1, Identification and Disposition of NASA Artifacts; NASA FAR Supplement Part 1852.245-71, Installation Provided Government Property.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The procedures shall include, as a minimum, the contractor's methods of implementing the intent of the applicable documents in the "References" section above. Other procedures shall be included as required, to fully define and identify the system of property control.

Remarks

None

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

MA01

Contract Number and Date

Title

List, Owners, Officers,
Directors, and Executive
Personnel

Responsible Office

Security Office

SUBMITTAL REQUIREMENTS

Distribution Instructions

Hard Copy Distribution:
Approval – Security Officer
Information – Contracting Officer

Initial Submittal Date

Start of contract.

As of Milestone

Not Later than March 01, 2010.

Frequency of Submittal

Annually or as required.

DATA REQUIREMENT DESCRIPTION

Purpose

To provide the Defense Security Services (DSS) cognizant security officer with current listing of owners, officers, directors and executive personnel in accordance with the National Industry Security Program Operating Manual (NISPOM), DOD 5220.22-M

Scope

This Data Requirement establishes the requirement for the submittal of a list of owners, officers, directors, and executive personnel in accordance with DOD NISPOM 5220.22-M.

ATTACHMENT 2

References

DSA Form 406, NISPOM, DOD 5220.22-M.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

A list will be submitted when there is any change in officers, directors, partners, regents, trustees, or executive personnel, including as appropriate, the names of the individuals they are replacing. In addition, a statement shall be made indicating: (i) whether the new officers, directors, partners, regents, trustees, or executive personnel are cleared, and if so, to what level, when, their date and place of birth, and their citizenship; (ii) whether they have been excluded from access in accordance with the provisions of paragraph 22e; or (iii) whether they have been temporarily excluded from access pending the granting of their personnel clearance.

DSA Form 406 will be used.

Remarks

Original to be mailed directly to cognizant office with a copy to the Security Officer.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

MA02

Contract Number and Date

Title

Plan, Emergency

Responsible Office

Center Operations
Directorate;
Operations and
Maintenance Division

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution

Hard Copy Distribution:

Information – Submit to Operations and Maintenance Division with one copy each to the Office of the Director, Support Services Contracting Division; Office of Safety and Mission Assurance, and Contracting Officer. Submit to the SSC Tech Doc System.

Initial Submittal Date

90 days after contract start.

As of Milestone

Initial NLT June 1, 2010

Frequency of Submittal

Annual Review and Update

DATA REQUIREMENT DESCRIPTION

Purpose

To provide a course of action including procedures to be followed by the contractor in the event of a disaster.

Scope

This data requirements description establishes the requirements for the preparation of a Plan for the reasonable protection of the Government facilities and related utilities, for which the Service Contractor is responsible, to prevent or minimize personnel casualties, damage or destruction of the facilities, related utilities and privately owned property resulting from a national or domestic emergency, including but not limited to acts of sabotage, labor disturbances, riots, fire, explosions, and acts of God, as outlined in the SSC Emergency Plan referenced above.

ATTACHMENT 2

References

None

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The Plan shall include, but is not limited to, the following:

- A. Levels of disaster
- B. Routes of evacuation
- C. Color-codes and signals the Contractor will execute in case of a disaster.
- D. Provisions for maintenance of up-to-date records of the physical location of all site personnel at all times.
- E. Provisions for immediate notification of next of kin in case of a catastrophic occurrence.
- F. Identification of hospitalization, first-aid areas, emergency vehicles, and qualified medical personnel capabilities.
- G. Indoctrination and training techniques proposed to insure adequate execution of the disaster plan.
- H. Provide a vital records program to allow survival of essential records during disaster conditions.
- I. Provisions for survival equipment and supplies.

Electronic 8 1/2 X 11 format compatible with Microsoft Word.

Maintain per GRS Schedule 5 Disposition 1, A1 NPG 1441.1.

Remarks

Contractor will review annually updating to maintain currency. In the event no changes are required to the plan a letter format report will be submitted stating the fact that the plan is current, and that no revisions are required.

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

MA03

Contract Number and Date

Title

Report, Equal Employment Opportunity

Responsible Office

Equal Employment Opportunity Office

SUBMITTAL REQUIREMENTS

Distribution Instructions

Hard Copy Distribution:

Information – Equal Employment Opportunity Office, Contracting Officer

Initial Submittal Date

90 days after contract start

As of Milestone

Reports shall be provided not later than the 5th of each month following the end of a calendar year quarter.

Frequency of Submittal

Quarterly

DATA REQUIREMENT DESCRIPTION

Purpose

This document will be used by the Government to assess the Contractor's equal employment and affirmative action management of Contract effort.

Scope

Data Requirement Description (DRD) establishes the requirement for the preparation and submittal of a quarterly EEO report.

ATTACHMENT 2

References

FAR 22.802; FAR Clause 52.222-26, Narrative Reports

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

Format and content of report specified in applicable document.

See applicable documents (Note: Contractor may reproduce forms, or obtain from NASA EO Office a diskette which will enable them to generate the forms through the use of PC Software.

Remarks

None

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

MA04

Contract Number & Date

Title

ACTIVITY REPORT

Responsible Office

Center Operations
Directorate

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution

Information – Contracting Officer
COTR

Initial Submittal Date

One quarter after contract award

As of Milestone

Award date

Frequency of Submittal

Quarterly

DATA REQUIREMENT DESCRIPTION

Purpose

To provide yearly metrics of all laboratory activities, to include types of test performed, quantities of test and correlation of test to the customer.

Scope

Data Requirement Description (DRD) establishes the requirement for the preparation and submittal of an activity report.

ATTACHMENT 2

References

None

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The report shall provide the actions performed and hours per functional area (see attached worksheet). The report shall also correlate the test and quantities to the applicable customer. This report shall be based on a contract year. The report shall provide separate metrics for NASA and the demand work.

ATTACHMENT 2

Functional Area	Includes	Hours
Management & Administration	Managers, Analysts, Secretarial	
Calibration	Technical Management, Metrologist, Metrology Technicians	
Metrology Engineering	Metrologist	
Lab Support	Clerks, Couriers	
Gas and Materials Analysis Services	Scientists, Scientific Management	
Environmental Laboratory Services	Scientists, Scientific Management, Computer Operators, Environmental Technicians, Physical Science Technicians	
EGIS / NR	Analysts, Scientists, Surveying Leads, Surveying Aids, Computer Operators	
Quality & Safety	Analysts	

Measurement Standards and Calibration Services

SERVICE	Quantities (TBD,2010 – TBD, 2010)
Service Requests (Requests from the customer for a service)	
Manufacturer's Supported (Number of different manufacturers of meters, torque wrenches, gauges, etc.)	
Unique Manufacturer/Model Number Supported (Of the manufacturers, number of different models of gauges, torque wrenches, meters, etc.)	
Average Calibration Interval (months)	
Calibrations (Calibrating instruments to ensure accuracy is within accepted tolerance)	
Repairs (Fixing broken or damaged instruments)	
Functionals (Calibration of an instrument that does not have a recall cycle)	
Cleaning (Inpropellant service it is cleaning an instrument to specifications that is to be used in an oxygen service)	
Off Site Serviced	
Adjusted (Sending instruments off site for calibration that have to be brought into specification)	
Data Only (Same as adjusted but just adjustment without specifications)	

ATTACHMENT 2

Gas and Materials Analysis Services

SERVICE	Quantities (TBD,2010 – TBD, 2010)
Air Samples	
Helium Samples	
Oxygen Samples	
Nitrogen Samples	
Hydrogen Samples	
Non-Volatile Residue	
Hydraulic Fluid Samples	
Condensable Hyd	
Prepare Gas Stds for Customer	
Fuel Samples (JP, RP1, and IPA)	
Prepare Etchant/Chemicals	
Contamination Samples – Tier 1 (Simple samples such as swabs to detect hydrocarbons and such)	
Contamination Samples – Tier 2 (Complex sampling such as metals contamination)	
Failure	

Environmental Laboratory Services

SERVICE	Quantities (TBD,2010 – TBD, 2010)
Base – Permitted Analyses (Analyses permitted by the state for specific water outfalls into a state water system)	
Base – Discretionary Analyses	
CERCLA	
*Site A Analyses	
*Site B Analyses	
*Site C Analyses	
*Site D Analyses	
*Site E Analyses	
*Landfill Analyses	
*Area F Analyses	
*Area G Analyses	

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

MA05

Contract Number & Date

Title

Contract End Inventory List

Responsible Office

Center Operations
Directorate

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution

Information – Contracting Officer
COTR

Initial Submittal Date

5 calendar days prior to contract expiration

As of Milestone

Contract expiration

Frequency of Submittal

Once

DATA REQUIREMENT DESCRIPTION

Purpose

To provide an inventory of materials. It is the contractor's responsibility to return the same type and level of materials back to the Government.

Scope

This Data Requirement Description (DRD) establishes the requirement for the preparation and submittal of an inventory list.

ATTACHMENT 2

References

None

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The inventory list shall be in the same format that the Government provides the contractor at the start of the contract. The contractor shall notify the COTR prior to initiation of the inventory to conduct oversight.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

MF01

Contract Number and Date

Title

Report, Electronic
Monthly Cost Data

Responsible Office

Office of Chief Financial
Officer

SUBMITTAL REQUIREMENTS

Distribution Instructions

NASA Contract Deliverable System
Approval: Financial Management Division, Cost Accountant
Information: Lead – Resources Management Division, Lead – Financial Management
Division, Contracting Officer, Contracting Officer Technical Rep

Initial Submittal Date

After start of contract

As of Milestone

COB 2 working days following the end of each NASA fiscal month

Frequency of Submittal

Monthly

DATA REQUIREMENT DESCRIPTION

Purpose

To assure that dollar and labor resources realistically support the schedule. The reporting level is at the total contract. Detail costs will be reported at the work authorization level. The reporting baseline is against total contract value.

Scope

This Data Requirement Description (DRD) establishes the requirements for the preparation of a report covering accumulated and forecasted dollar expenditures required to perform the contractual effort.

ATTACHMENT 2

References

None

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

Scope: This Data requirement establishes the requirement and related criteria for providing the monthly cost data in a flat file format as delineated in the attached Annex.

Contents and Format: The data file shall be provided in the format as delineated in the attached Annex to this DR.

Format: Letter format to the NASA Contract Deliverable System stating date of delivery to computer operations support contractor.

Remarks

Cost data is due to computer operations support contractor for download into Other Accumulated Cost (OAC) NLT COB 2 working days following the end of the fiscal month.

ATTACHMENT 2

FLAT FILE LAYOUT		
FIELD	LENGTH	TYPE
Element of Cost	2	Numeric
Function Code	6	Numeric
Work Request No.	10	Numeric
Contributing Unit	4	Numeric
Current Week Amount	*11	Numeric
Current Week Hours	*11	Numeric
Total Amount	*11	Numeric
Total Hours	*11	Numeric
Filler	92	Alpha-Numeric

The file needs to be a Text File.
 *Right justified with floating leading negative, implied decimal.
 (e.g. - \$125.59 would be sent as '-12559' [11 chars]) same applies for hours

HEADER RECORD LAYOUT		
FIELD	LENGTH	TYPE
Current Year	4	Numeric
Current Month	2	Numeric
Current Day	2	Numeric
Contract Number	11	Alpha-Numeric
Fiscal Week	2	Numeric
Filler	115	Alpha-Numeric

Examples:

Element of Cost - indicates type of work performed (e.g. 100103)

- 10 - Labor
- 20 - S.C Labor
- 40 - Materials
- 50 - O.D.C.

Function Code - indicates type of work performed (e.g. 106103)

Work Request No. - WBS (TWR, FSR, SWR, etc.) used to request work from contractor

Contributing Unit - OBS (contributing contractor units) (e.g. 4752)

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

MF02

Contract Number and Date

Title

**Report, Monthly Cost
and Workforce
Management**

Responsible Office

**Resources Management
Division**

SUBMITTAL REQUIREMENTS

Distribution Instructions

NASA Contract Deliverable System
Approval: Resources Management Division, Lead
Concurrence:
Information – Contracting Officer, Contracting Officer Technical Representative,
Resources Management Division Institution Sr. Analysis, Financial Management
Division, Earth Sciences Applications Tech. Manager, and IT Technical Manager

Initial Submittal Date

After start of contract.

As of Milestone

Fiscal Month End

Frequency of Submittal

Monthly, due no later than 10 calendar days following the close of each NASA/SSC
month.

DATA REQUIREMENT DESCRIPTION

Purpose

Reporting of cost and workforce for both the prime and all subcontractors to SSC
management.

ATTACHMENT 2

Scope

This Data Requirement Description (DRD) establishes the requirements for the preparation of the monthly report that provides monthly plan versus actual status (dollars and workforce) against the approved operating budget line including a variance explanation.

References

None

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

Cost (dollars) and workforce reported by SSC operating budget programmatic line items via electronic format.

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

MF03

Contract Number and Date

Title

**Report, Cost Exceeding
85% of SWR Estimate**

Responsible Office

**Financial Management
Division**

SUBMITTAL REQUIREMENTS

Distribution Instructions

NASA Contract Deliverable System
Approval: Contracting Officer Technical Representation
Concurrence:
Information – Contracting Officer, SWR Authorizer

Initial Submittal Date

No earlier than 45 days after contract start

As of Milestone

Fiscal Month End.

Frequency of Submittal

Monthly, COB Wednesday after SSC Fiscal month end

DATA REQUIREMENT DESCRIPTION

Purpose

To identify any work orders with actual cost within 85% of the customer's "not to exceed" cost estimate.

ATTACHMENT 2

Scope

1. Provide a monthly report to separately identify reimbursable work orders with cost within 85% of Customer's "Not-To-Exceed" cost estimate.
2. Provide a monthly report to separately identify all non-reimbursable work orders with cost within 85% of Customer's "Not-to-Exceed" cost estimate.

References

PWS (C.2.1.2 Cost reporting)

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The report shall provide a tabular listing that identifies the home unit SWR number and description.

Remarks

The report is due COB Wednesday after SSC Fiscal month end.

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

MF04

Contract Number and Date

Title

Report, Cost Exceeding
100% of SWR Estimate

Responsible Office

Office of Chief Financial
Officer

SUBMITTAL REQUIREMENTS

Distribution Instructions

NASA Contract Deliverable System
Approval: Financial Management Division
Concurrence:
Information – Contracting Officer, Contracting Officer Technical Representation, SWR
Authorizer

Initial Submittal Date

No earlier than 45 days after contract start

As of Milestone

Fiscal Month End.

Frequency of Submittal

Monthly, COB Wednesday after SSC Fiscal month end

DATA REQUIREMENT DESCRIPTION

Purpose

To identify any work orders with actual cost in excess of the customer's "not to exceed" cost estimate.

ATTACHMENT 2

Scope

1. Provide a monthly report to separately identify reimbursable work orders with cost in excess of Customer's "Not-To-Exceed" cost estimate.
2. Provide a monthly report to separately identify all non-reimbursable work orders with cost in excess of Customer's "Not-to-Exceed" cost estimate.

References

PWS (C.2.1.2 Cost reporting)

Exceptions/Additions to Referenced Requirements

NOTE: Current practice is to report cost overruns.

Preparation Instructions

The report shall provide a tabular listing that identifies the home unit SWR number and description.

Remarks

The report is due COB Wednesday after SSC Fiscal month end.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

MF05

Contract Number and Date

Title

Report, Occupancy

Responsible Office

Office of the Chief
Financial Officer

SUBMITTAL REQUIREMENTS

Distribution Instructions

Hard Copy Distribution:
Approval – General Accounting – Lead, General Accounting

Initial Submittal Date

November 1st

As of Milestone

Fiscal year end.

Frequency of Submittal

Annually

DATA REQUIREMENT DESCRIPTION

Purpose

To facilitate the development of the annual occupancy rate.

Scope

This Data Requirement Description (DRD) establishes the requirement for preparation of an annual report identifying all costs incurred by the contractor on NASA and reimbursable work orders.

ATTACHMENT 2

References

SSC OAC procedures.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The report will be in two parts. Part 1 will be a summary listing of BLI, year-to-date cost, and year-to-date hours for the previous fiscal year. Part 2 will provide detail data elements including all costs incurred in previous fiscal year by work order and budget line item; cost breakdown by Labor, Material, ODC, Total; total hours; subtotal by benefitor within budget line item; subtotal by budget line item; and grand total.

Remarks

None

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

MF06

Contract Number and Date

Title

Report, Demand Work
Accumulated Expenditures

Responsible Office

Office of Procurement
Contract Management
Support

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Information: Contracting Officer
Contracting Officer Technical Rep
Office of Chief Financial Office (OCFO)

Initial Submittal Date

After start of contract

As of Milestone

March 1, 2010

Frequency of Submittal

Monthly

DATA REQUIREMENT DESCRIPTION

Purpose

To track the tenant demand work not to exceed amount. The reporting level shall be based on contract period of performance.

Scope

This Data Requirement Document (DRD) establishes the requirements for the preparation of a report covering accumulated dollar expenditures related to tenant demand work.

ATTACHMENT 2

References

None

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

Report actual cost to complete SWR's for demand work: (Note: Reporting shall be less directed Management and Technical overhead cost adders as this information does not affect contract value)

- (1) The total labor price incurred under SWR.
- (2) In the case of a cost under run, the excess amount shall be reduced and returned to the SWR benefiter.
- (3) The total number of labor hours expended with a breakdown of labor hours for each classification listed in the SWR. (this information should be in a back up file)

SWRs shall be categorized based on tenant (see example below)

Navy SWR 0123	\$100	
Navy SWR 0124	\$100	
Navy Total		\$200
NRA SWR 01234	\$150	
NRA SWR 01235	\$150	
NRA Total		\$300
Total Demand Work Expenditures		\$500

Remarks

None

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

MF07

Contract Number and Date

Title

**Report, Overhead and
Material charge for
Demand Work**

Responsible Office

**Office of Procurement
Contract Management
Support**

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Information: Contracting Officer
Contracting Officer Technical Rep
Office of Chief Financial Office (OCFO)

Initial Submittal Date

After start of contract

As of Milestone

March 1, 2010

Frequency of Submittal

Semi-annually & Annually

DATA REQUIREMENT DESCRIPTION

Purpose

To track the demand work overhead and material adders amount. This report shall be used to aid the Government in establishing the amount the NASA direct work shall be credit in accordance with page 8 of the RFP. A contract modification will be issued as needed to reflect the credit. See page 3 of this DR for a graphical description of how the credit will be applied.

Scope

This Data Requirement Document (DRD) establishes the requirements for the preparation of a report covering accumulated dollar expenditures related to the overhead and material charge tenant demand work.

ATTACHMENT 2

References

Page 8 of RFP

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

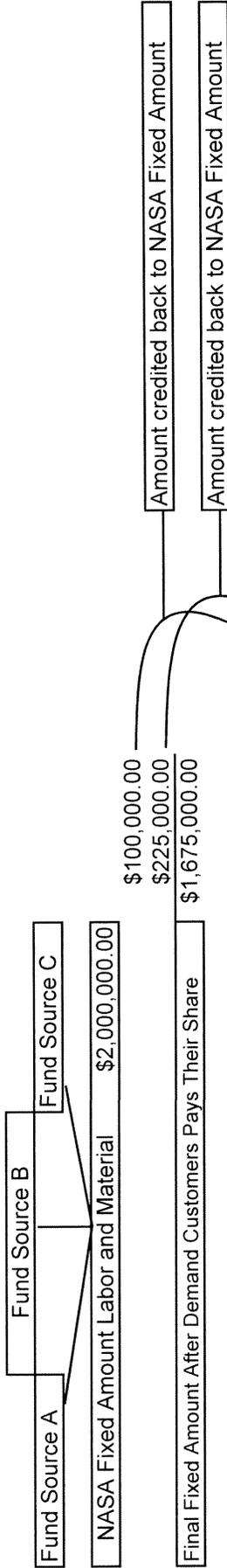
Contractor shall prepare a report that identifies the semi-annually and annually amount charged to demand customers as an overhead and material usage adder. This report shall be in a format that is understood by the intended audience.

Remarks

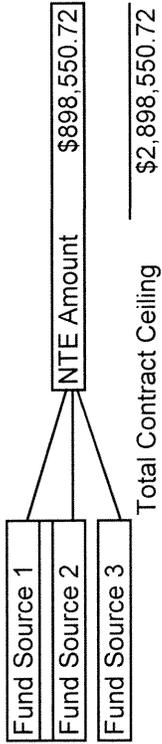
None

GRAPHICAL DESCRIPTION OF HOW TO PROCESS THE OVERHEAD AND MATERIAL CHARGE FOR THE DEMAND CLIN
 (Numbers shown below are only examples)

NASA CLIN 002



Demand CLIN 004



Demand SWR Process for Overhead and Material

Yearly SWR Totals	
Labor Cost	\$500,000.00
(Overhead) 45% adder	\$225,000.00 *
(From NASA Direct CLIN) Material Usage	\$100,000.00 *
SWR Direct Materials	\$25,000.00
SWR Totals	\$850,000.00

Credits

Contractor is due \$2,525,000 VS the \$2,000,000 for allowing demand work
 * Does not affect contract value for the Demand CLINs

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

PC01

Contract Number and Date

Title

Report, Liability to
Third Person(s)

Responsible Office

Office of the Chief
Counsel

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Hard Copy Distribution:
Approval – Chief Counsel
Information – Contracting Officer

Initial Submittal Date

When any suit or action is filed against the contract.

As of Milestone

As of date of report.

Frequency of Submittal

As Required.

DATA REQUIREMENT DESCRIPTION

Purpose

To inform the Contracting Officer on any liability by the contractor to a third person(s), which may or may not be covered by the contractor's insurance.

Scope

This Data Requirement Description (DRD) establishes the requirement for the preparation of a report covering any suit or action field, or any claim made, against the contract as required by the "Insurance-Liability to Third Persons" clause of the Contract.

ATTACHMENT 2

References

FAR 52.228-7; NASA FAR Supplement 1852.228-75, entitled "Insurance to Third Persons".

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

Letter format detailing any suit or action filed, or any claim made, against the contractor by a third person(s) arising from the performance of the contract.

Remarks

Report to be made within 15 days after filing of action or claim.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

PC02

Contract Number and Date

Title

Certificate/Policy,
Insurance

Responsible Office

Support Services
Contracting Division

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Approval – Contracting Officer
Information – Chief Counsel

Initial Submittal Date

15 days after award of contract.

As of Milestone

Start of contract or revisions thereof.

Frequency of Submittal

Certificate/Policy shall be provided within 15 days after award of contract. Any revisions in coverage changes shall be submitted at least 30 days prior to implementation.

DATA REQUIREMENT DESCRIPTION

Purpose

Certificate shall describe the type and amount of insurance coverage maintained by the contractor during the period of the contract. Complete policy shall also be provided to ensure insurance requirements of the contract are met.

ATTACHMENT 2

Scope

This Data Requirement Description (DRD) establishes the requirement for submittal of a certificate and detailed insurance policy with coverage and contents specified in FAR 52.228-5 "Insurance-Liability to Third Persons" and NASA FAR Supplement clause 1852.228-75 "Minimum Insurance Coverage".

References

FAR 52.228-5; NASA FAR Supplement 1852.228-75.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

As required in the references above an "Insurance" Certificate and Policy information shall be provided by Insurance Company.

Data submitted to procuring activity for review not later than three weeks prior to project implementation. Data shall be considered approved unless contractor has been notified of disapproval prior to project implementation.

Remarks

None

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

PC03

Contract Number and Date

Title

Organizational Conflict
of Interest Avoidance
Plan (OCI)

Responsible Office

Office of the Chief
Counsel

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Hard Copy Distribution:
Approval – Chief Counsel
Information – Contracting Officer

Initial Submittal Date

Within 30 days after contract award.

As of Milestone

N/A

Frequency of Submittal

As Required

DATA REQUIREMENT DESCRIPTION

Purpose

To meet the requirements of NFS 1852.237-72.

Scope

This Data Requirement Description (DRD) establishes the requirement for the preparation of the OCI plan.

References

NFS 1852.237-72 ACCESS TO SENSITIVE INFORMATION

See Attached Preparation Instructions

ORGANIZATIONAL CONFLICT OF INTEREST AVOIDANCE PLAN (OCI) The successful offeror shall submit during phase-in an Organizational Conflicts of Interest (OCI) Avoidance Plan. The COI Avoidance Plan will demonstrate to the Government that the Contractor will mitigate organizational conflicts of interest and ensure that the Contractor provides unbiased, impartial advice and adequately protects sensitive data. The OCI Avoidance Plan will also demonstrate that no organizational conflict of interest exists or that any such potential conflicts have been adequately avoided or mitigated, especially when using subject matter experts or technical experts connected to any prime contractor or subcontractor performing or planning to propose on design, development, and/or delivery of space flight hardware, software, mission integration services or other critical systems related to SSC. The offeror should not assume that Government performance of a contracted task is a form of mitigation. The OCI Avoidance Plan shall include the following:

(1) Organizational conflicts of interest pertaining to impaired objectivity shall be addressed as follows:

(i) Describe the nature of the conflict including any business relationships that might create a conflict with the performance of the SOW.

(ii) Describe the plan for avoiding, neutralizing, or mitigating the conflict, including the following with regard to subject matter experts/technical experts if applicable:

(A) The management reporting chains between this contract and the work performed by the subject matter experts/technical experts for the conflicting business relationship are separated from each other.

(B) The subject matter experts/technical experts, when performing under this contract, are physically separated from the portion of the company performing the work for the conflicting business relationships.

(C) Each subject matter expert/technical expert performing under this contract signs an express, binding, written agreement setting forth all responsibilities and duties to avoid organizational conflicts of interest and to protect sensitive data provided under this order.

(D) Techniques are in place to ensure that the Contractor shall not favor the conflicting business relationships and will avoid the appearance of conflicts of interest.

(2) With regard to access to nonpublic information, the COI Avoidance Plan shall contain a plan to safeguard all proprietary/sensitive data the Contractor (including all employees and subject matter experts/technical experts) receives. This plan shall include:

(i) A provision that the contractor shall not disclose or improperly use the proprietary/sensitive data received or accessed under this contract.

(ii) A provision that information, whether in hard copy or on electronic media, shall be marked, handled, stored, and destroyed in order to preclude an unauthorized disclosure of information.

(iii) A provision that information technology shall be protected to prevent unauthorized disclosure of information.

(iv) A provision that employees performing the effort must sign an express, binding, written agreement clearly agreeing to protect sensitive data.

(v) A requirement that subcontractors have appropriate OCI avoidance procedures in place for the use of subject matter experts.

(vi) A requirement for periodic self-audits, the results of which shall be made available to the Government.

(vii) Initial and periodic refresher OCI training for the contractor employees/experts working on this contract.

(viii) A description of organizational and employee sanctions for violation of the OCI order clause or OCI Avoidance Plan provisions.

(ix) Provisions on record keeping requirements regarding OCI (e.g., training, written agreements). The contractor shall make these records available to and cooperate with any neutral third party the Government assigns to review adherence to their OCI mitigation plan.

(x) A provision requiring the Contractor to report any real, apparent, or potential conflict of interest that may arise to the Contracting Officer.

(xi) A provision requiring the contractor to update the OCI Avoidance Plan upon occurrence of any event that will cause a change to the plan.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

PT01

Contract Number and Date

Title

Plan, Automated
Information Security

Responsible Office

Office of Chief Information
Office

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Hard Copy Distribution:
Approval – IT Security Manager (ITSM)
Information – Chief Information Officer
Contracting Officer
Chief Information Management

Initial Submittal Date

90 days after start of contract.

As of Milestone

Not Later than May 29, 2010.

Frequency of Submittal

The Plan will be reviewed on an annual basis and an updated (if needed) will be submitted by the end of September of each year.

DATA REQUIREMENT DESCRIPTION

Purpose

This Plan establishes the security requirements governing contractor and government data on government supplied computer systems at SSC and of contractor owned computer systems at SSC.

ATTACHMENT 2

Scope

This Data Requirement Definition (DRD) establishes the requirements for preparation and submittal of a Contractor IT Security Plan specific to Contractor's operation at Stennis

References

NPR 2810.1A

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The Plan shall contain, as a minimum, the following information: IT risk assessments for the security of contractor and government data on government supplied systems utilized by Contractor at SSC and of contractor owned computer systems at SSC. Applicable security requirements. Requirements for personnel screening. Requirements and techniques to assess the protective measures for the security of contractor and government data on government supplied systems utilized by Contractor at SSC and of contractor owned computer systems at SSC. Requirements for control of individual access and establishing the accountability of the individual related to the security of contractor data on government supplied systems utilized by Contractor at SSC and of contractor owned computer systems at SSC. Procedures to minimize the impact of incidents or disasters related to the security of contractor and government data on government supplied systems utilized by Contractor at SSC and of contractor owned computers. MS Word electronic format (SSC standard). The plan will be reviewed on an annual basis and updated as required. If no update is required, notification of the review process is required.

Remarks

None

DATA REQUIREMENT

DR Number, Date Revised

PT02

Contract Number and Date

Title

Report, Automated
Information Security Incident

Responsible Office

Office of Chief Information
Officer

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution in accordance with Contract Article H.5.C:Hard Copy Distribution:
Approval – Chief, Information Technology (IT) Security Manager
Information – Information Management Division

Initial Submittal Date

As IT Security incidents occur.

As of Milestone

As IT Security incidents occur.

Frequency of Submittal

When an IT security incident occurs meeting the criteria specified in NPG 2810.1, Sec 4.4. IT Security Incidents Reporting and Handling, it must be documented and transmitted within three (3) days.

DATA REQUIREMENT DESCRIPTION

Purpose

Reports on IT security incidents will be used to alert NASA and NASA contractor Computer Security Officials (CSO) and Information Processing Service Organizations (IPSO) security official(s) of computer system vulnerabilities, unauthorized access to computer systems, and other problems adversely affecting NASA and NASA contractors.

Scope

This Data Requirement Description (DRD) establishes the requirements for preparation and submittal of an IT Security Follow-on Incident Report.

References

NPG 2801.1, Sec. 4.4, IT Security Incidents Reporting and Handling, Security of Information Technology, Security of Information Technology, NPG 2810.1 and SSC Information Technology Security Incident Reporting and Handling Procedure, SPG 2810.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The report shall include, as a minimum, the following information: Incident Category, Date and time of incident notification Name of person or organization providing the incident notification, Date and time of incident Name, IP address, and SSC tag number of the SSC computer system and identification of any non-SSC computer system, Location of the computer system (building and room number), Type of computer system, Operating system (name and version), Cognizant organization, Identification of the computer system CSO, Primary function of the computer system, Classification of the computer system (sensitivity level and configuration), Method of penetration or virus infection, if known, Characterization of perpetrator(s) thought to be involved (i.e. insider, outsider), Preliminary estimate of damage, if known, and/or potential damage, Immediate corrective actions taken, Corrective actions planned, Organizations/personnel contacted, e.g. technical support, law enforcement, legal counsel, and public relations.

Remarks

None

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

RA01

**Contract Number &
Modification No.**

Title

Plan, Quality Program

Responsible Office

Office of Safety and
Mission Assurance

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Hard Copy Distribution:
Approval – QA00 Office of Safety & Mission Assurance
Information –Contracting Officer

Initial Submittal Date

Thirty (30) days after contract start.

As of Milestone

As required.

Frequency of Submittal

Initial as per "Initial Submittal Date" and revisions for significant changes as required.

DATA REQUIREMENT DESCRIPTION

Purpose

To outline the overall quality program of the contractor, providing the methods to accomplish and satisfy contractual requirements.

ATTACHMENT 2

Scope

This data requirement description establishes the requirement for the preparation of a Quality Program Plan. It shall cover the organizational relationship and responsibilities of the quality inspection and engineering functions. The authority and duties of persons and organizations performing quality implementation and assurance functions shall be clearly established and delineated and shall have sufficient authority and organizational freedom to identify problems as well as initiate, recommend or provide solutions. The NASA approved Quality Program Plan will be the governing document for the implementation and maintenance of the contractor's Quality Assurance Program.

References

NPD 8700.1B and NPD 8730.1B

Exceptions/Additions to Referenced Requirements

The Plan shall outline the proposed system for providing the following:

- A. Recorded evidence, in the form of quality inspection reports and test results.
- B. Recorded evidence of quality surveillance in the form of inspection and test reports for work performed in support of Stennis Work Request (SWR) initiated by any resident SSC agency requesting quality assurance support.
- C. Documented evidence that articles are fabricated, inspected and tested in accordance with the requirements specified on the SWR and necessary changes are accomplished in accordance with requirements.
- D. Control of raw material to determine conformance to the applicable specification, drawing or SWR documentation.
- E. Performance of sufficient inspection and test of part components and assemblies to insure that prior to delivery, all articles conform to the applicable specification described on the SWR and documentation. The inspection shall include: workmanship, finish, construction, functional performance, identification, marking and the criteria for determining quality conformance or rejection of the articles. (This inspection is not applicable for receiving, processing and shipping of articles.)
- F. Control of non-conforming articles to prevent their use.
- G. Control of inspection, measuring, and test equipment to insure conformance of articles to contract requirements.
- H. A system for indicating the inspection status of articles.
- I. Sampling inspection to determine quality conformance.
- J. A comprehensive system of planned and periodic audits shall be carried out to verify compliance with all aspects of QA program.

Electronic 8 1/2 X 11 format compatible with SSC Microsoft Office Suite.

ATTACHMENT 2

Preparation Instructions

The Plan shall be maintained in current condition by page revision or complete reissue, as contractually determined to reflect the latest program changes and hardware configuration. Maintain per GSA Schedule 5 Disposition Item 1, A1 NPR 1441.1D.

Data requiring written approval by procuring activity prior to implementation into the procurement or development program.

Submit plan to NASA Contracts Deliverables System and post plan in SSC TechDoc.

Remarks

Update Plan and submit for approval as required.

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

RA02

**Contract Number &
Modification No.**

Title

Plan, Personnel
Certification

Responsible Office

Office of Safety and
Mission Assurance

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Hard Copy Distribution:
Approval – SSC Training and Certification Board Chair
Information – Contracting Officer

Initial Submittal Date

Thirty (30) days after contract start.

As of Milestone

As required.

Frequency Submittal

Per "Initial Submission Due" and revisions for significant changes in requirements.

DATA REQUIREMENT DESCRIPTION

Purpose

To define the total program requirements to establish, administer and control proficiency levels of special process personnel, as specified in the contract agreement.

Scope

The contractor shall prepare and submit a Plan implementing the development and maintenance of a training and certification program. It shall be required for those personnel participating in or responsible for controlling special processes having a significant effect upon product quality and/or involving essentially hazardous and/or critical operations.

ATTACHMENT 2

References

SPR 8715.1, SSP-8715-0001, and OSHA 29 CFR Parts 1910 and 1926.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The Personnel Certification Plan shall include the following items:

- A. Personnel who satisfy certification requirements shall be issued a badge, certification card or other device as evidence of certification that shall be worn or carried on the person while performing these duties.
- B. Certification shall be for a specific period of time with recertification requiring retesting.
- C. Records shall be maintained indicating individuals and processes in which certified.
- D. The program shall include provisions for monitoring personnel performance as well as work quality and physical testing requirements to ensure their continued ability to meet all criteria.
- E. Provide support to the NASA SSC Training Certification Records System (TCRS) Board.

Electronic 8 1/2 format compatible with SSC Microsoft Office Suite.

Update as required. Maintain per GRS Schedule 5 Disposition Item 1, A1 NPR 1441.1D.

Submit plan to NASA Contracts Deliverables System and post plan in SSC TechDoc.

Data requiring written approval by procuring activity prior to implementation into the procurement or development program.

Remarks

Submit plan for approval to the NASA SSC Training Certification Records System (TCRS) Board and an information copy to the Contracting Office.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

RA03

**Contract Number &
Modification No.**

Title

Report, Quality Status

Responsible Office

Office of Safety and
Mission Assurance

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Hard Copy Distribution:
Approval – Office of Safety & Mission Assurance
Information – Contracting Officer
Contracting Officer's Technical Representative

Initial Submittal Date

Fifteen (15) days following fiscal month end.

As of Milestone

Reported data through fiscal month end; Report submitted no later than 15th of following month.

Frequency of Submittal

Monthly

DATA REQUIREMENT DESCRIPTION

Purpose

To provide current quality program status, including the progress, setbacks/problems and future planning of activities.

Scope

This data requirement description establishes the requirement for the preparation of a report containing narrative comments, recommendations and a summary of corrective actions performed during the reporting period.

References

ATTACHMENT 2

NASA approved Quality Program Plan.

Exceptions/Additions to Referenced Requirements

NPD 8700.1B and NPD 8730.1B

Preparation Instructions

The data contained in the report shall cover all laboratories (Measurements Standards and Calibration, Gas and Material Analysis & Environmental), Electronic Repair and any Technical Operations. The data shall be categorized in these general areas:

- A. Major Accomplishments.
- B. Potential Hardware Problems/Resolutions: A separate summary of each problem in narrative or other suitable format.
- C. Setbacks and Problems: A summary of significant quality related setbacks and existing problems encountered by the contractor during the reporting period including scheduling impacts due to calibration/repairs.
- D. Plans for Quality Improvement.
- E. Internal and external Audits/Surveys (including ISO, third party audits, etc.).
- F. VORs/CARs.
- G. Follow-Ups.
- H. Weekly or monthly totals of manhours summary with corresponding SWR numbers.

Electronic 8 1/2 format compatible with SSC Microsoft Office Suite.
Maintain per GSA Schedule 5 Disposition Item 1, A1 NPR 1441.1D.

Data submitted to procuring activity for coordination, surveillance, or information.

Remarks

None

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

SA01

Contract Number and Date

Title

Plan, Safety and Health

Responsible Office

Office of Safety and
Mission Assurance

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Hard Copy Distribution:
Approval – Office Of Safety & Mission Assurance
Information – Contracting Officer

Initial Submittal Date

Submitted with offeror proposal.

As of Milestone

Start of contract and revisions thereof.

Frequency of Submittal

Initial as per "Initial Submittal Date" and revisions for significant changes in requirements or scope.

DATA REQUIREMENT DESCRIPTION

Purpose

To describe a program of activities and related controls designed for the protection of personnel, equipment and facilities.

ATTACHMENT 2

Scope

This data requirement description established the requirements for the preparation of a Plan covering safety controls to be applied by the contractor for the protection of life and health of employees and other persons, and for the prevention of damage to property, materials, supplies and equipment.

NFS Clause 1852.223-73, SPR 8715.1, ssp-8715-0001, and NASA Software Safety Standard NASA-STD-8719.13B

The Plan shall be based upon the following standards to the extent that they are applicable to the contractor's operations.

- A. OSHA 29 CFR 1910.
- B. CFR Part 49.
- C. U.S. Environmental Protection Agency 40 CFR 61, Subpart M.
- D. National Fire Protection Association, National Fire and Electrical Codes.
- E. American National Standards Institute (ANSI, Safety series).
- F. SSC Safety Manual.
- G. NASA Safety Manual.
- H. American Society of Mechanical Engineers, Boiler and Unfired Pressure Vessel Code.
- I. Accident Prevention Manual for Industrial Operations (NSC).
- J. National Fire Prevention Association Handbook for Fire Protection.
- K. National Building Code.
- L. Southern Building Code.
- M. Industrial Ventilation Guide.
- N. Illumination Engineering Society Handbook.
- O. Heating, Ventilation Guide.
- P. Factory Mutual Engineering Division Requirements.

The Contractor shall identify and document appropriate program areas to ensure the prevention of accidents and establish procedural documentation to insure compliance with contract safety, health and fire requirements. The Plan shall insure that required procedures are developed to indicate the condition of the overall safety program and identify needed areas of improvement. The Plan will include as an appendix an Asbestos Control Program Plan, which describes in detail the work practices and precautions to be used to ensure asbestos fiber control. This Plan will include procedures for above ceiling entries or work where asbestos fibers may be in a friable form and state necessary personnel protective clothing and equipment for those buildings containing spray applied insulation.

ATTACHMENT 2

Electronic 8 1/2 format compatible with SSC Microsoft Office Suite.

Maintain per GRS Schedule 5 Disposition Item 1, A1 NPR 1441.1D.

Remarks

Update approved Plan when 10% of any page requires changing or sooner if the nature of the change warrants special consideration.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

SA01

Contract Number and Date

Title

Plan, Safety and Health

Responsible Office

Office of Safety and
Mission Assurance

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution:
Approval – Office Of Safety & Mission Assurance
Information – Contracting Officer

Initial Submittal Date

Submitted with offeror proposal.

As of Milestone

Start of contract and revisions thereof.

Frequency of Submittal

Initial as per "Initial Submittal Date" and revisions for significant changes in requirements or scope.

DATA REQUIREMENT DESCRIPTION

Purpose

To describe a program of activities and related controls designed for the protection of personnel, equipment and facilities.

ATTACHMENT 2

Scope

This data requirement description established the requirements for the preparation of a Plan covering safety controls to be applied by the contractor for the protection of life and health of employees and other persons, and for the prevention of damage to property, materials, supplies and equipment.

NFS Clause 1852.223-73, SPR 8715.1, ssp-8715-0001, and NASA Software Safety Standard NASA-STD-8719.13B

References

None

Exceptions/Additions to Referenced Requirements

The Plan shall be based upon the following standards to the extent that they are applicable to the contractor's operations.

- A. OSHA 29 CFR 1910.
- B. CFR Part 49.
- C. U.S. Environmental Protection Agency 40 CFR 61, Subpart M.
- D. National Fire Protection Association, National Fire and Electrical Codes.
- E. American National Standards Institute (ANSI, Safety series).
- F. SSC Safety Manual.
- G. NASA Safety Manual.
- H. American Society of Mechanical Engineers, Boiler and Unfired Pressure Vessel Code.
- I. Accident Prevention Manual for Industrial Operations (NSC).
- J. National Fire Prevention Association Handbook for Fire Protection.
- K. National Building Code.
- L. Southern Building Code.
- M. Industrial Ventilation Guide.
- N. Illumination Engineering Society Handbook.
- O. Heating, Ventilation Guide.
- P. Factory Mutual Engineering Division Requirements.

The Contractor shall identify and document appropriate program areas to ensure the prevention of accidents and establish procedural documentation to insure compliance with contract safety, health and fire requirements. The Plan shall insure that required procedures are developed to indicate the condition of the overall safety program and identify needed areas of improvement. The Plan will include as an appendix an Asbestos Control Program Plan, which describes in detail the work practices and precautions to be used to ensure asbestos fiber control. This Plan will include procedures for above ceiling entries or work where asbestos fibers may be in a friable form and state necessary personnel protective clothing and equipment for those buildings containing spray applied insulation.

ATTACHMENT 2

Electronic 8 1/2 format compatible with SSC Microsoft Office Suite.

Maintain per GRS Schedule 5 Disposition Item 1, A1 NPR 1441.1D.

Remarks

Update approved Plan when 10% of any page requires changing or sooner if the nature of the change warrants special consideration.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

SA02

Contract Number and Date

Title

Procedures, Safety

Responsible Office

Office of Safety and
Mission Assurance

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Hard Copy Distribution:
Approval – Office Of Safety & Mission Assurance
Information – Contracting Officer
Post approved document to SSC TechDoc System

Initial Submittal Date

Submitted within 30 working days after contract start date.

As of Milestone

As of start of contract.

Frequency of Submittal

Initial as per "Initial Submittal Date" and submitted thereafter to keep the procedures current.

DATA REQUIREMENT DESCRIPTION

Purpose

To provide safety controls, in procedural form, for the protection of personnel and property at particular facilities.

Scope

This data requirement description establishes the requirements for the preparation of procedures that define the execution of a safety program for use at SSC.

ATTACHMENT 2

References

Contractor Safety and Health Plan. SPR 8715.1, OSHA 29 CFR 1910 and 1926, and SSP-8715-0001

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

The Procedures shall describe safety methods that apply to the prevention of damage to property, supplies, and equipment, and the overall protection of personnel. The procedures shall provide for the monitoring/inspection of SSC industrial operations to determine the adequacy of system safety and identify hazard criteria. Also, the procedures shall enhance safety training and traffic safety.

Electronic 8 1/2 format compatible with SSC Microsoft Office Suite.

Maintain per GRS Schedule 5 Disposition Item 1, A1 NPR 1441.1D.

Remarks

Revisions will be submitted as required to keep the procedures current.

ATTACHMENT 2
DATA REQUIREMENT

DR Number, Date Revised

SA03

**Contract Number &
Modification No.**

Title

Report, Accident/Incident

Responsible Office

Office of Safety and
Mission Assurance

SUBMITTAL REQUIREMENTS

Distribution Instructions

Hard Copy Distribution:
Approval – Office of Safety & Mission Assurance
Information – Contracting Officer
Contracting Officer Technical Representative
Chief Counsel
Technical Managers of each of the Offices and Directorates

Initial Submittal Date

Within 24 hours of mishap.

As of Milestone

As of mishap.

Frequency of Submittal

Accidents/incidents determined to be a Class A, B, C or D Mishaps or critical Close Calls or Mission Failures will be reported using NASA Form 1627. Part 1 of Form 1627 is required within 24 hours with the completed Form submitted within 10 days.

DATA REQUIREMENT DESCRIPTION

Purpose

To report accidents or mishaps and to identify the cause and corrective action.

ATTACHMENT 2

Scope

These requirements apply to all activities and employees under the scope of this contract whether on SSC or at other locations.

References

Accident Reporting, Trend Analysis and Corrective Action, SPR 8715.1, NPG 8621.1A, SSP-8715-0001 and OSHA 29 and CFR 1910.

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

Telephone reports will contain information required by NASA Form 1627 and followed up by that form. Within 24 hours, Class A, B, C or D mishaps or critical close calls and mission failures will be reported using Part 1 of Form 1627. The complete form is required within 10 days after initial report. NASA Form 1627, IRIS. Form 1627 will be retained for 5 years. IRIS (Incident Reporting Information System), inputs into the database are required daily. This includes initial input of information as a case occurs and additional case data as it becomes known. All modules/tabs are to be filled out appropriately.

Remarks

Use NASA Mishap Report Form 1627 and the IRIS database.

ATTACHMENT 2

DATA REQUIREMENT

DR Number, Date Revised

SA04

**Contract Number &
Modification No.**

Title

Report, Accident
Experience

Responsible Office

Office of Safety and
Mission Assurance

SUBMITTAL REQUIREMENTS

Distribution Instructions

Electronic Distribution
Hard Copy Distribution:
Approval – Office of Safety & Mission Assurance
Information – Contracting Officer

Initial Submittal Date

See "As of Milestone" date.

As of Milestone

Reported data through fiscal month end; Report submitted no later than 5th of following month.

Frequency of Submittal

Monthly

DATA REQUIREMENT DESCRIPTION

Purpose

To provide a monthly summary of manhours, mishaps, lost-time accidents, accident frequency and average number of employees.

Scope

This report provides a monthly summary of the contractor manhours and injuries, for injury statistical reporting.

ATTACHMENT 2

References

Safety and Accident Prevention Plan, Mishap Reporting, Corrective Action System Program, SPR 8715.1, and SSP-8715-0001

Exceptions/Additions to Referenced Requirements

None

Preparation Instructions

This data requirement description establishes the requirements for the preparation and submittal of a report which provides a statistical summary of fatalities, manhours worked, number of Lost Time injury or illnesses, LT frequency rate, average number of employees, total OSHA injuries (type D), and OSHA incident rate by month and FYTD summary. Electronic 8 1/2 X 11 format compatible with SSC Microsoft Office Suite. Maintain per GRS Schedule 5 Disposition Item 1, A1 NPR 1441.1D. Please utilize and submit the attached form to the NASA Safety Office.



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Remarks

None

ATTACHMENT 2

**NASA CONTRACTOR
ACCIDENT EXPERIENCE**

CM September
Period Covered

Fiscal Year

Field Installation

Contractor	# of Fatalities	Hours Worked	# of LT Injury or Illness	LT Frequency Rate*	# of Type A Mishaps	# of Type B Mishaps	Avg # of Personnel	Total # of OSHA Injuries	OSHA Incidence Rate***
(Main)									
(Subs)									
“									
(Total)									

* *Lost Time Frequency Rate (for fiscal year) =*

Total # of LT Injuries x 200,000

Total Hours of Exposure

*** *OSHA Incidence Rate (for fiscal year) =*

Total # of OSHA Reportable Injuries/Illnesses x 200,000

Total Hours of Exposure

ATTACHMENT 2

**NASA CONTRACTOR
ACCIDENT EXPERIENCE**

FYTD September
Period Covered

Fiscal Year

Field Installation

Contractor	# of Fatalities	Hours Worked	# of LT Injury or Illness	LT Frequency Rate*	# of Type A Mishaps	# of Type B Mishaps	Avg # of Personnel	Total # of OSHA Injuries**	OSHA Incidence Rate***
(Main)									
(Subs)									
“									
(Total)									

* Lost Time Frequency Rate (for fiscal year) = $\frac{\text{Total \# of LT Injuries} \times 200,000}{\text{Total Hours of Exposure}}$

** Total number of OSHA reportable injuries for the fiscal year.

*** OSHA Incidence Rate (for fiscal year) = $\frac{\text{Total \# of OSHA Reportable Injuries/Illnesses} \times 200,000}{\text{Total Hours of Exposure}}$

LIST OF GOVERNMENT FURNISHED PROPERTY

<u>FSC Code</u>	<u>Category</u>	<u>Equipment Description</u>	<u>Acquisition Date</u>	<u>Location</u>	<u>Acquisition Value</u>
1940	Small Craft	BOAT, ALUMINUM, 14'	07/26/1977	SS-9801	\$ 259.00
1940	Small Craft	BOAT, ALUMINUM, 16'	08/01/1984	SS-8100	\$ 1,100.00
1940	Small Craft	BOAT, FIBERGLASS, 24'	09/24/1997	SS-9801	\$ 6,272.00
2320	Trucks & Truck Tract	TRUCK, OFF-ROAD UTILITY	08/27/2007	SS-9801	\$ 9,313.00
2330	Trailers	TRAILER, UTILITY 4'X 8'	08/23/1990	SS-8100	\$ 455.00
2330	Trailers	TRAILER, BOAT	09/24/1997	SS-9801	\$ 1,970.00
2330	Trailers	TRAILER	05/02/2001	SS-9801	\$ 689.00
2330	Trailers	TRAILER, BOAT	02/19/2003	SS-8100	\$ 250.00
2330	Trailers	TRAILER, UTILITY	09/05/2007	SS-9801	\$ 999.00
2805	Gasoline Reciprocati	OUTBOARD MOTOR, GASOLINE	08/20/1992	SS-8100	\$ 2,410.00
2805	Gasoline Reciprocati	OUTBOARD MOTOR, GASOLINE	09/24/1997	SS-9801	\$ 5,562.00
3405	Saws And Filing Mach	SAW, BAND METAL CUTTING	07/29/1965	SS-8110	\$ 2,902.00
3405	Saws And Filing Mach	SAW, BAND	08/12/1966	SS-8110	\$ 375.00
3405	Saws And Filing Mach	SAW, WET CUT	11/13/1996	SS-8110	\$ 3,666.00
3405	Saws And Filing Mach	SAW, MITER 10	10/09/1997	SS-9801	\$ 200.00
3405	Saws And Filing Mach	SAW, VERTICAL BAND	06/26/1989	SS-8110	\$ 2,863.00
3405	Saws And Filing Mach	SAW, BAND	07/05/1989	SS-8110	\$ 1,300.00
3413	Drilling And Tapping	DRILLING MACHINE, UPRIGHT	01/07/1966	SS-8110	\$ 608.00
3413	Drilling And Tapping	DRILLING MACHINE, UPRIGHT	07/01/1965	SS-8110	\$ 169.00
3413	Drilling And Tapping	DRILLING MACHINE, UPRIGHT	04/15/1971	SS-8110	\$ 228.00
3413	Drilling And Tapping	DRILLING MACHINE, UPRIGHT	11/04/1993	SS-8110	\$ 3,300.00
3413	Drilling And Tapping	DRILLING MACHINE, UPRIGHT	07/05/1989	SS-8110	\$ 1,845.00
3415	Grinding Machines	GRINDING MACHINE, BENCH	12/09/1965	SS-8110	\$ 128.00
3415	Grinding Machines	GRINDER, TOOL POST ELECTRIC	01/27/1966	SS-8110	\$ 437.00
3416	Lathes	LATHE, ENGINE PRODUCTION	02/03/1966	SS-8110	\$ 7,122.00
3416	Lathes	LATHE	09/04/2001	SS-8110	\$ 9,805.00
3416	Lathes	LATHE, BACK GEARED BENCH	06/26/1989	SS-8110	\$ 3,757.00
3417	Milling Machines	MILLING MACHINE	09/14/1966	SS-8110	\$ 2,219.00
3419	Miscellaneous Machin	GRINDER, BELT	10/28/1965	SS-8110	\$ 1,545.00
3439	Miscellaneous Weldin	SOLDERING STATION	05/03/1993	SS-8110	\$ 1,325.00
3439	Miscellaneous Weldin	SOLDERING STATION	09/24/1997	SS-8110	\$ 1,420.00

3439	Miscellaneous Weldin	SOLDERING STATION	09/24/1997	SS-8110	\$ 1,420.00
3445	Punching And Shearin	PUNCHING MACHINE, METAL, HAND	09/23/1966	SS-8110	\$ 197.00
3449	Miscellaneous Second	SHARPENING MACHINE, DRILL STEE	03/09/1990	SS-8110	\$ 890.00
3460	Machine Tool Accesso	TABLE, PRECISION ROTARY TILT	10/19/1965	SS-8120	\$ 6,300.00
3540	Wrapping And Packagi	SEALING MACHINE	03/23/1983	SS-8110	\$ 1,975.00
3540	Wrapping And Packagi	BOTTLE, STANDARD CALIBRATING	02/17/1966	SS-8110	\$ 3,100.00
3694	Clean Work Stations,	BENCH,CLEAN;LAMINAR FLOW	03/31/2003	SS-8110	\$ 4,445.00
3695	Miscellaneous Specia	SAW, CHAIN	09/16/2005	SS-9801	\$ 403.00
3930	Warehouse Trucks And	TRANSPORTER,DRUM	11/13/2001	SS-8110	\$ 3,512.00
3950	Winches, Hoists, Cra	COMEALONG	06/16/1983	SS-8100	\$ 45.00
3950	Winches, Hoists, Cra	HOIST, CHAIN	02/28/2003	SS-8120	\$ 139.00
3950	Winches, Hoists, Cra	WINCH, ELECTRIC	03/09/2004	SS-9801	\$ 300.00
4110	Refrigeration Equipm	ICE MAKING MACHINE	01/31/2005	SS-8100	\$ 3,973.00
4110	Refrigeration Equipm	ICE MAKING MACHINE	01/30/2006	SS-8110	\$ 2,689.00
4310	Compressors And Vacu	PUMP, VACUUM	09/23/1997	SS-8100	\$ 1,892.00
4310	Compressors And Vacu	PUMP, VACUUM	09/21/1999	SS-8100	\$ 1,007.00
4310	Compressors And Vacu	PUMP,VACUUM	06/13/2002	SS-8100	\$ 2,049.00
4310	Compressors And Vacu	PUMP,VACUUM	02/05/2003	SS-8110	\$ 2,690.00
4320	Power And Hand Pumps	PUMP, HPLC	08/13/1996	SS-8100	\$ 4,796.00
4320	Power And Hand Pumps	PUMP, PERISTALTIC	08/23/2000	SS-8100	\$ 928.00
4320	Power And Hand Pumps	BOOSTER,GAS	05/29/2002	SS-8110	\$ 11,328.00
4320	Power And Hand Pumps	BOOSTER,GAS	12/19/2002	SS-8110	\$ 5,240.00
4320	Power And Hand Pumps	PUMP, PERISTALTIC	02/05/2007	SS-8100	\$ 879.00
4320	Power And Hand Pumps	PUMP, PERISTALTIC	07/09/2007	SS-8100	\$ 1,045.00
4430	Industrial Furnaces,	OVEN, MECHANICAL CONVECTION	03/26/1986	SS-8100	\$ 2,225.00
4940	Misc Maintenance And	CLEANER, ULTRASONIC	06/04/1987	SS-8110	\$ 12,975.00
4940	Misc Maintenance And	CLEANER, ULTRASONIC	06/10/1992	SS-8100	\$ 824.00
4940	Misc Maintenance And	CLEANER, ULTRASONIC	06/12/1992	SS-8100	\$ 824.00
4940	Misc Maintenance And	TABLE, HYDRAULIC LIFT	03/30/1994	SS-8110	\$ 2,107.00

4940	Misc Maintenance And	CLEANER, ULTRASONIC	05/21/1996	SS-8100	\$ 3,128.00
4940	Misc Maintenance And	CLEANER, ULTRASONIC	07/23/2007	SS-8100	\$ 1,466.00
5120	Hand Tools, Nonedged	WRENCH, TORQUE	02/22/1989	SS-8100	\$ 189.00
5120	Hand Tools, Nonedged	WRENCH, TORQUE	02/22/1989	SS-8100	\$ 189.00
5130	Hand Tools, Power Dr	LOADER, MECHANICAL TORQUE	06/14/1988	SS-8110	\$ 3,395.00
5130	Hand Tools, Power Dr	DRILL	06/16/1987	SS-8110	\$ 90.00
5130	Hand Tools, Power Dr	DRILL, 1/2 ELECTRIC PORTABLE	10/26/1976	SS-9801	\$ 65.00
5130	Hand Tools, Power Dr	SAW, BAND	10/01/1979	SS-9801	\$ 294.00
5130	Hand Tools, Power Dr	PRESS, DRILL 1/2 FLOOR ELECT	07/09/1979	SS-8110	\$ 340.00
5130	Hand Tools, Power Dr	DRILL, 1/4 ELECTRIC PORTABLE	03/28/1977	SS-8110	\$ 22.00
5130	Hand Tools, Power Dr	DRILL, 1/4 ELECTRIC PORTABLE	09/29/1976	SS-9801	\$ 22.00
5130	Hand Tools, Power Dr	ROUTER	03/15/1990	SS-9801	\$ 129.00
5130	Hand Tools, Power Dr	GRINDER, 4 1/2 ANGLE	03/15/1990	SS-9801	\$ 69.00
5130	Hand Tools, Power Dr	SCREWDRIVER, SCRUGUN	03/15/1990	SS-9801	\$ 134.00
5130	Hand Tools, Power Dr	SAW, 7 1/4 CIRCULAR	03/15/1990	SS-9801	\$ 119.00
5130	Hand Tools, Power Dr	DRILL, 1/2 RIGHT ANGLE	04/13/1990	SS-8110	\$ 255.00
5130	Hand Tools, Power Dr	DRILL, 3/8	05/11/1990	SS-8110	\$ 144.00
5130	Hand Tools, Power Dr	SANDER/GRINDER, 4 1/2	04/11/1991	SS-9801	\$ 127.00
5130	Hand Tools, Power Dr	DRILL, 1/2	09/24/1992	SS-9801	\$ 155.00
5130	Hand Tools, Power Dr	SCREWDRIVER, CORDLESS	04/17/2002	SS-8110	\$ 38.00
5130	Hand Tools, Power Dr	SCREWDRIVER, CORDLESS	04/17/2002	SS-8110	\$ 38.00
5130	Hand Tools, Power Dr	SCREWDRIVER, CORDLESS	04/17/2002	SS-8110	\$ 38.00
5130	Hand Tools, Power Dr	SCREWDRIVER, CORDLESS	04/17/2002	SS-8110	\$ 38.00
5130	Hand Tools, Power Dr	DRILL, CORDLESS; 3/8	06/05/2003	SS-9801	\$ 197.00
5130	Hand Tools, Power Dr	SAWZALL	09/20/1997	SS-8110	\$ 135.00
5130	Hand Tools, Power Dr	SAW, BAND	09/20/1997	SS-9801	\$ 290.00
5130	Hand Tools, Power Dr	SANDER, BELT	04/20/2000	SS-9801	\$ 200.00
5130	Hand Tools, Power Dr	SAW, JIG	12/07/1988	SS-9801	\$ 85.00
5210	Measuring Tools, Cra	BLOCKS ANGLE	05/11/1965	SS-8110	\$ 1,125.00

5210	Measuring Tools, Cra	GAGE BLOCK SET	08/20/2008	SS-8110	\$ 4,805.00
5210	Measuring Tools, Cra	GAGE BLOCK SET	08/20/2008	SS-8110	\$ 4,805.00
5220	Inspection Gages And	PLATE, SURFACE	12/26/1965	SS-8110	\$ 1,360.00
5220	Inspection Gages And	GAGE BLOCK SET	09/12/1978	SS-8110	\$ 1,184.00
5220	Inspection Gages And	TABLE, PRECISION GRANITE	05/27/1965	SS-8110	\$ 1,456.00
5220	Inspection Gages And	BLOCK,GAGE	01/23/2003	SS-8110	\$ 5,885.00
5220	Inspection Gages And	GAGE BLOCK SET	12/03/2003	SS-8110	\$ 4,565.00
5280	Sets, Kits, & Outfit	ALLOY STANDARDS (SET OF 100)	09/08/1988	SS-8100	\$ 4,275.00
5820	Radio And Television	RADIO, PORTABLE	04/25/1996	SS-8110	\$ 2,071.00
5820	Radio And Television	RADIO, PORTABLE	04/25/1996	SS-8110	\$ 2,071.00
5820	Radio And Television	SWEEPER, SYNTHESIZED BROADBAND	05/05/1988	SS-8110	\$ 38,622.00
5820	Radio And Television	RADIO, PORTABLE	06/20/2000	SS-8100	\$ 1,623.00
5820	Radio And Television	RADIO, PORTABLE	06/03/2004	SS-9801	\$ 2,720.00
5820	Radio And Television	RADIO, PORTABLE	06/03/2004	SS-9801	\$ 2,720.00
5820	Radio And Television	RADIO, PORTABLE	06/03/2004	SS-9801	\$ 2,720.00
5820	Radio And Television	RADIO, PORTABLE	06/03/2004	SS-8100	\$ 2,720.00
5820	Radio And Television	RADIO, PORTABLE	06/03/2004	SS-8100	\$ 2,720.00
5825	Radio Navigation Equ	POSITIONING SYSTEM, GLOBAL	09/10/1999	SS-9801	\$ 2,998.00
5825	Radio Navigation Equ	RECEIVER, RADIO BEACON	09/10/1999	SS-9801	\$ 1,580.00
5825	Radio Navigation Equ	POSITIONING SYSTEM, GLOBAL	07/08/2004	SS-9801	\$ 7,270.00
5836	Video Recording And	RECORDER-REPRODUCER,VIDEO	08/14/2001	SS-8110	\$ 60.00
5840	Radar Equipment, Exc	RECEIVER, GPS	09/30/1996	SS-8110	\$ 6,005.00
5860	Stimulated Coherent	INTERFEROMETER	05/22/1965	SS-8110	\$ 2,430.00
5895	Miscellaneous Commun	AMPLIFIER DIGITAL	03/16/1983	SS-8110	\$ 1,325.00
5895	Miscellaneous Commun	POWER SUPPLY	11/02/1965	SS-8110	\$ 315.00
5895	Miscellaneous Commun	POWER SUPPLY	05/06/1965	SS-8110	\$ 180.00
5895	Miscellaneous Commun	DETECTOR DC NULL	05/07/1965	SS-8110	\$ 328.00
5895	Miscellaneous Commun	POWER SUPPLY	05/06/1965	SS-8110	\$ 180.00
5895	Miscellaneous Commun	OSCILLATOR LOW FREQUENCY	11/17/1965	SS-8110	\$ 590.00

5895	Miscellaneous Commun	POWER SUPPLY AC REGULATED	05/06/1965	SS-8110	\$ 180.00
5895	Miscellaneous Commun	POWER SUPPLY REGULATED AC	05/06/1965	SS-8120	\$ 180.00
5895	Miscellaneous Commun	POWER SUPPLY HARRISON	01/13/1966	SS-8120	\$ 350.00
5895	Miscellaneous Commun	POWER SUPPLY	09/21/1965	SS-8120	\$ 145.00
5895	Miscellaneous Commun	POWER SUPPLY PRECISION	09/29/1976	SS-8110	\$ 199.00
5895	Miscellaneous Commun	POWER SUPPLY PRECISION	09/29/1976	SS-8110	\$ 199.00
5895	Miscellaneous Commun	POWER SUPPLY 36VDC	11/02/1965	SS-8110	\$ 315.00
5895	Miscellaneous Commun	POWER SUPPLY 40VDC	05/06/1965	SS-8120	\$ 180.00
5895	Miscellaneous Commun	POWER SUPPLY	12/14/1964	SS-8110	\$ 145.00
5895	Miscellaneous Commun	TESTER TRANSISTOR	05/06/1967	SS-8110	\$ 180.00
5895	Miscellaneous Commun	POWER SUPPLY REGULATED	05/06/1965	SS-8110	\$ 180.00
5895	Miscellaneous Commun	POWER SUPPLY	03/28/1966	SS-8110	\$ 305.00
5895	Miscellaneous Commun	AMPLIFIER POWER	03/10/1988	SS-8110	\$ 2,330.00
5905	Resistors	RESISTOR VARIABLE	11/08/1967	SS-8110	\$ 1,307.00
6115	Generators And Gener	GENERATOR, PORTABLE	09/08/2005	SS-2208	\$ 559.00
6116	Fuel Cell Power Unit	GENERATOR, HYDROGEN GAS	04/30/2008	SS-8100	\$ 20,603.00
6130	Converters, Electric	POWER SUPPLY	06/17/2008	SS-8110	\$ 1,232.00
6515	Medical And Surgical	TABLE OPTICAL ROTARY	12/15/1965	SS-8110	\$ 5,848.00
6530	Hospital Furniture,	STERILMATIC	10/23/1991	SS-8100	\$ 8,040.00
6620	Engine Instruments	DEAD WEIGHT TESTER	01/09/1986	SS-8110	\$ 4,200.00
6625	Electrical And Elect	RF CONTROL UNIT	08/02/1988	SS-8110	\$ 6,023.00
6625	Electrical And Elect	RF TRANSFER STANDARD	08/02/1988	SS-8110	\$ 8,658.00
6625	Electrical And Elect	PANEL SINGLE CHAN.PRESS.INTER.	08/02/1988	SS-8110	\$ 8,700.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL	03/14/1988	SS-8110	\$ 1,720.00
6625	Electrical And Elect	STANDARDIZER, SIGNAL	04/20/1988	SS-8110	\$ 2,610.00
6625	Electrical And Elect	AMPLIFIER, DUAL TRACE, PLUG-IN	04/20/1988	SS-8110	\$ 1,260.00
6625	Electrical And Elect	POWER SUPPLY PRECISION	05/25/1988	SS-8110	\$ 1,652.00
6625	Electrical And Elect	CALIBRATOR DIRECT VOLTAGE	06/07/1988	SS-8110	\$ 12,508.00
6625	Electrical And Elect	STANDARD, HIGH CAPACITANCE	05/16/1988	SS-8110	\$ 3,890.00
6625	Electrical And Elect	METER, POWER	05/19/1988	SS-8110	\$ 1,309.00
6625	Electrical And Elect	ANALYZER, SPECTRUM	05/23/1988	SS-8110	\$ 32,970.00
6625	Electrical And Elect	MODULE, MAIN FRAME POWER	05/23/1988	SS-8110	\$ 561.00
6625	Electrical And Elect	HEAD, SAMPLING	05/23/1988	SS-8110	\$ 2,375.00
6625	Electrical And Elect	SWEEP UNIT, SAMPLING	05/23/1988	SS-8110	\$ 4,636.00

6625	Electrical And Elect	GENERATOR, PULSE	05/23/1988	SS-8110	\$ 2,945.00
6625	Electrical And Elect	SAMPLING UNIT	05/23/1988	SS-8110	\$ 1,895.00
6625	Electrical And Elect	FREQUENCY STANDARD CESIUM BEAM	07/06/1988	SS-8110	\$ 30,615.00
6625	Electrical And Elect	SCANNER, STANDARD CELL	03/02/1988	SS-8110	\$ 3,850.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	04/20/1988	SS-8110	\$ 895.00
6625	Electrical And Elect	AMPLIFIER, DUAL TRACE, PLUG-IN	05/26/1989	SS-8110	\$ 2,462.00
6625	Electrical And Elect	AMPLIFIER, DUAL TRACE, PLUG-IN	05/26/1989	SS-8110	\$ 2,462.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL PLUG-N	05/26/1989	SS-8110	\$ 2,034.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL PLUG-N	05/26/1989	SS-8110	\$ 2,034.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL PLUG-N	05/26/1989	SS-8110	\$ 2,034.00
6625	Electrical And Elect	MULTIMETER	07/07/1986	SS-8110	\$ 940.00
6625	Electrical And Elect	OSCILLOSCOPE	09/16/1996	SS-8110	\$ 6,664.00
6625	Electrical And Elect	GENERATOR, FUNCTIONAL	03/25/1996	SS-8110	\$ 995.00
6625	Electrical And Elect	MODULE, SENSOR	09/15/1994	SS-8100	\$ 4,239.00
6625	Electrical And Elect	COUNTER, UNIVERSAL	01/23/1997	SS-8110	\$ 2,332.00
6625	Electrical And Elect	DETECTOR, FLUORESCENCE	03/24/1997	SS-8100	\$ 11,000.00
6625	Electrical And Elect	CALIBRATOR, D.C. VOLTAGE	04/07/1997	SS-8110	\$ 3,995.00
6625	Electrical And Elect	CALIBRATOR, D.C. VOLTAGE	04/07/1997	SS-8110	\$ 3,995.00
6625	Electrical And Elect	MULTIMETER	11/09/1989	SS-8100	\$ 389.00
6625	Electrical And Elect	GENERATOR, CALIBRATION	03/30/1994	SS-8110	\$ 3,995.00
6625	Electrical And Elect	MAINFRAME, POWER MODULE	04/22/1993	SS-8110	\$ 1,123.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/10/1993	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	05/12/1993	SS-8110	\$ 1,319.00
6625	Electrical And Elect	MULTIMETER	05/12/1993	SS-8110	\$ 1,319.00
6625	Electrical And Elect	MULTIMETER	05/12/1993	SS-8110	\$ 1,319.00
6625	Electrical And Elect	MULTIMETER	05/12/1993	SS-8110	\$ 1,319.00
6625	Electrical And Elect	METER, POWER	07/06/1993	SS-8110	\$ 2,575.00
6625	Electrical And Elect	MULTIMETER	05/05/1997	SS-8110	\$ 926.00
6625	Electrical And Elect	MULTIMETER	05/05/1997	SS-8110	\$ 926.00
6625	Electrical And Elect	MULTIMETER	05/05/1997	SS-8110	\$ 926.00
6625	Electrical And Elect	MULTIMETER	05/05/1997	SS-8120	\$ 926.00

6625	Electrical And Elect	MULTIMETER	09/25/1997	SS-8110	\$ 335.00
6625	Electrical And Elect	MULTIMETER	09/25/1997	SS-8110	\$ 335.00
6625	Electrical And Elect	MULTIMETER	09/25/1997	SS-8110	\$ 335.00
6625	Electrical And Elect	MULTIMETER	09/25/1997	SS-8110	\$ 335.00
6625	Electrical And Elect	GENERATOR PULSE	01/14/1987	SS-8110	\$ 2,057.00
6625	Electrical And Elect	DETECTOR GENERATOR	01/14/1987	SS-8110	\$ 3,626.00
6625	Electrical And Elect	VOLTMETER DIFFERENTIAL	01/14/1987	SS-8110	\$ 745.00
6625	Electrical And Elect	VOLTMETER DIFFERENTIAL	01/14/1987	SS-8110	\$ 745.00
6625	Electrical And Elect	STANDARD RESISTANCE	01/14/1987	SS-8110	\$ 1,050.00
6625	Electrical And Elect	POWER SUPPLY DC	02/11/1987	SS-8110	\$ 641.00
6625	Electrical And Elect	POWER SUPPLY	02/11/1987	SS-8120	\$ 641.00
6625	Electrical And Elect	MACHINE CALIBRATING	03/09/1987	SS-8110	\$ 13,193.00
6625	Electrical And Elect	RING, PROVING	03/17/1987	SS-8110	\$ 10,520.00
6625	Electrical And Elect	POWER SUPPLY DIFFERENTIAL	05/01/1987	SS-8110	\$ 995.00
6625	Electrical And Elect	SWITCH TRANSFER	05/01/1987	SS-8110	\$ 1,250.00
6625	Electrical And Elect	GENERATOR	05/27/1987	SS-8110	\$ 4,239.00
6625	Electrical And Elect	GENERATOR	05/27/1987	SS-8110	\$ 4,239.00
6625	Electrical And Elect	DETECTOR, NULL	06/02/1987	SS-8110	\$ 1,925.00
6625	Electrical And Elect	CALIBRATOR, METER	06/05/1987	SS-8110	\$ 13,389.00
6625	Electrical And Elect	TRANSDUCER	07/27/1987	SS-8110	\$ 1,995.00
6625	Electrical And Elect	AMPLIFIER, DUAL TRACE, PLUG-IN	02/07/1977	SS-8110	\$ 1,116.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	02/07/1977	SS-8110	\$ 897.00
6625	Electrical And Elect	INDICATOR FLOAT POSITION	12/16/1987	SS-8110	\$ 11,600.00
6625	Electrical And Elect	DIGITAL TERAHOHMMETER	01/07/1988	SS-8110	\$ 11,900.00
6625	Electrical And Elect	DATA ACQUISITION UNIT	01/07/1988	SS-8110	\$ 1,564.00
6625	Electrical And Elect	CALIBRATOR VOLTAGE DC	02/12/1988	SS-8110	\$ 4,653.00
6625	Electrical And Elect	CALIBRATOR VOLTAGE DC	02/12/1988	SS-8110	\$ 4,653.00
6625	Electrical And Elect	TRACER, DIGITAL CURRENT	03/07/1983	SS-8110	\$ 384.00
6625	Electrical And Elect	SIGNAL SOURCE RF POWER	06/24/1985	SS-8110	\$ 28,931.00
6625	Electrical And Elect	SYNTHESIZER FREQUENCY	07/09/1985	SS-8110	\$ 3,851.00
6625	Electrical And Elect	GENERATOR PROGRAMMABLE	07/17/1985	SS-8110	\$ 15,615.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	10/08/1985	SS-8110	\$ 3,668.00
6625	Electrical And Elect	MONITOR OXYGEN	08/06/1985	SS-8110	\$ 846.00
6625	Electrical And Elect	RESISTANCE, STANDARD	11/01/1985	SS-8110	\$ 4,945.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL PLUG-N	11/25/1985	SS-8110	\$ 1,713.00
6625	Electrical And Elect	COUNTER ELECTRIC	03/26/1986	SS-8110	\$ 4,719.00
6625	Electrical And Elect	DIVIDER VOLTAGE	04/09/1986	SS-8110	\$ 3,755.00
6625	Electrical And Elect	STANDARD REFERENCE	04/09/1986	SS-8110	\$ 2,815.00
6625	Electrical And Elect	GENERATOR FREQUECNY	03/18/1986	SS-8110	\$ 4,993.00
6625	Electrical And Elect	GENERATOR FREQUENCY	03/18/1986	SS-8110	\$ 4,993.00
6625	Electrical And Elect	GENERATOR FREQUENCY	03/18/1986	SS-8110	\$ 4,993.00
6625	Electrical And Elect	DISC FLOPPY	04/15/1986	SS-8110	\$ 851.00
6625	Electrical And Elect	SOURCE, CURRENT	04/17/1986	SS-8110	\$ 10,749.00
6625	Electrical And Elect	MODULE SENSOR	04/28/1986	SS-8110	\$ 1,796.00
6625	Electrical And Elect	MEASUREMENT SET DISTORTION	05/14/1986	SS-8110	\$ 2,884.00

6625	Electrical And Elect	BRIDGE, RESISTANCE COMPARATOR	05/14/1986	SS-8110	\$ 24,000.00
6625	Electrical And Elect	OSCILLOSCOPE	05/15/1986	SS-8110	\$ 9,153.00
6625	Electrical And Elect	OSCILLOSCOPE	05/15/1986	SS-8110	\$ 9,153.00
6625	Electrical And Elect	OSCILLOSCOPE	05/15/1986	SS-8110	\$ 9,153.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	06/02/1986	SS-8110	\$ 1,539.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	06/02/1986	SS-8110	\$ 1,539.00
6625	Electrical And Elect	ANALYZER, AUDIO	06/16/1986	SS-8110	\$ 5,693.00
6625	Electrical And Elect	OHMMETER	06/19/1986	SS-8110	\$ 2,000.00
6625	Electrical And Elect	SOURCE CURRENT	06/19/1986	SS-8110	\$ 1,400.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	06/24/1986	SS-8110	\$ 1,539.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	06/24/1986	SS-8110	\$ 1,539.00
6625	Electrical And Elect	MULTIMETER	07/07/1986	SS-8110	\$ 940.00
6625	Electrical And Elect	BALANCE, ELECTRONIC PRECISION	09/12/1986	SS-8100	\$ 2,449.00
6625	Electrical And Elect	BALANCE, ELECTRONIC ANALYTICAL	09/15/1986	SS-8100	\$ 1,111.00
6625	Electrical And Elect	RECEIVER MEASURING	07/07/1986	SS-8110	\$ 22,673.00
6625	Electrical And Elect	GENERATOR SIGNAL	07/15/1986	SS-8110	\$ 6,924.00
6625	Electrical And Elect	BLOCK REVERSE	07/24/1986	SS-8110	\$ 35.00
6625	Electrical And Elect	LOAD MATCHED	07/25/1986	SS-8110	\$ 1,150.00
6625	Electrical And Elect	CONVERTER THERMAL COAXIAL	08/01/1986	SS-8110	\$ 4,950.00
6625	Electrical And Elect	STANDARD PRIMARY PHASE ANGLE	08/13/1986	SS-8110	\$ 12,355.00
6625	Electrical And Elect	GENERATOR TIME MARK	04/01/1985	SS-8110	\$ 2,185.00
6625	Electrical And Elect	MULTIMETER AUTORANGING	08/01/1984	SS-8110	\$ 419.00
6625	Electrical And Elect	MULTIMETER AUTORANGING	08/01/1984	SS-8110	\$ 419.00
6625	Electrical And Elect	MULTIMETER AUTORANGING	08/01/1984	SS-8110	\$ 419.00
6625	Electrical And Elect	BRIDGE, CAPACITANCE	09/06/1978	SS-8110	\$ 8,227.00
6625	Electrical And Elect	POWER SUPPLY	05/06/1980	SS-8120	\$ 109.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	07/27/1976	SS-8110	\$ 522.00
6625	Electrical And Elect	MULTIMETER	06/16/1967	SS-8110	\$ 69.00
6625	Electrical And Elect	CAPACITOR DECADE	05/24/1983	SS-8110	\$ 883.00
6625	Electrical And Elect	SLOTTED LINE WAVEGUIDE	01/05/1966	SS-8110	\$ 1,265.00
6625	Electrical And Elect	VOLTMETER DIFFERENTIAL RMS	04/08/1983	SS-8110	\$ 3,320.00
6625	Electrical And Elect	RESISTOR DECADE	06/21/1967	SS-8110	\$ 3,172.00
6625	Electrical And Elect	VOLTMETER DC	08/01/1977	SS-8110	\$ 1,325.00
6625	Electrical And Elect	MULTIMETER	06/21/1967	SS-8110	\$ 65.00
6625	Electrical And Elect	SYNTHESIZER FREQUENCY	05/11/1976	SS-8110	\$ 3,361.00
6625	Electrical And Elect	POWER SUPPLY	05/14/1976	SS-8110	\$ 400.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	07/08/1981	SS-8110	\$ 445.00
6625	Electrical And Elect	AMPLIFIER POWER	03/03/1983	SS-8110	\$ 7,771.00
6625	Electrical And Elect	CURRENT SHUNT	04/08/1983	SS-8110	\$ 546.00
6625	Electrical And Elect	AMPLIFIER TRANSDUCER	04/18/1983	SS-8110	\$ 3,444.00
6625	Electrical And Elect	CELL STANDARD ENCLOSURE	10/20/1965	SS-8110	\$ 2,255.00
6625	Electrical And Elect	WATTMETER	08/17/1967	SS-8110	\$ 185.00

6625	Electrical And Elect	TIME BASE, PLUG-IN	12/30/1976	SS-8110	\$ 771.00
6625	Electrical And Elect	MULTIMETER	10/26/1976	SS-8110	\$ 75.00
6625	Electrical And Elect	MULTIMETER, DIGITAL, PLUG-IN	12/30/1976	SS-8110	\$ 359.00
6625	Electrical And Elect	MULTIMETER	02/24/1967	SS-8110	\$ 75.00
6625	Electrical And Elect	SYNTHESIZER FREQUENCY	08/01/1984	SS-8110	\$ 3,871.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	02/21/1978	SS-8110	\$ 162.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	09/02/1977	SS-8110	\$ 362.00
6625	Electrical And Elect	COUNTER, DIGITAL, PLUG-IN	12/30/1976	SS-8110	\$ 1,499.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	12/30/1976	SS-8110	\$ 1,576.00
6625	Electrical And Elect	POWER SUPPLY	08/10/1977	SS-8110	\$ 445.00
6625	Electrical And Elect	POWER SUPPLY	08/10/1977	SS-8110	\$ 445.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	02/21/1978	SS-8110	\$ 162.00
6625	Electrical And Elect	POWER MODULE	08/17/1977	SS-8110	\$ 175.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	02/21/1978	SS-8110	\$ 162.00
6625	Electrical And Elect	CALIBRATOR A/C	10/01/1984	SS-8110	\$ 6,569.00
6625	Electrical And Elect	VOLTMETER AC	03/07/1983	SS-8110	\$ 792.00
6625	Electrical And Elect	AMPLIFIER, SINGLE TRACE PLUG-N	07/07/1976	SS-8110	\$ 301.00
6625	Electrical And Elect	AMPLIFIER, SINGLE TRACE PLUG-N	06/07/1976	SS-8110	\$ 301.00
6625	Electrical And Elect	VOLTMETER AC	03/07/1983	SS-8110	\$ 792.00
6625	Electrical And Elect	INDICATOR, UNIVERSAL	07/28/1983	SS-8110	\$ 1,000.00
6625	Electrical And Elect	MULTIMETER	02/20/1966	SS-8110	\$ 90.00
6625	Electrical And Elect	METER CALIBRATION	01/12/1966	SS-8110	\$ 195.00
6625	Electrical And Elect	OSCILLOSCOPE	02/07/1979	SS-8110	\$ 2,220.00
6625	Electrical And Elect	MULTIMETER	03/13/1976	SS-8110	\$ 75.00
6625	Electrical And Elect	VOLTMETER DIFFERENTIAL	06/12/1978	SS-8110	\$ 2,266.00
6625	Electrical And Elect	AMPLIFIER, SINGLE TRACE PLUG-N	07/07/1976	SS-8110	\$ 873.00
6625	Electrical And Elect	TIME BASE, PLUG IN	01/10/1977	SS-8110	\$ 1,576.00
6625	Electrical And Elect	AMPLIFIER, DUAL TRACE, PLUG-IN	06/07/1976	SS-8110	\$ 1,116.00
6625	Electrical And Elect	STANDARDIZER, PLUG-IN	06/07/1976	SS-8110	\$ 657.00
6625	Electrical And Elect	STROBOSCOPE ELECTRONIC STROTAS	11/15/1965	SS-8110	\$ 290.00
6625	Electrical And Elect	CALIBRATOR COUPLER ADAPTER	03/04/1980	SS-8110	\$ 409.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	07/17/1972	SS-8110	\$ 625.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	07/17/1972	SS-8110	\$ 725.00
6625	Electrical And Elect	TESTER CARD	05/10/1968	SS-8110	\$ 3,051.00
6625	Electrical And Elect	MAINFRAME BENCHTOP PORTABLE	01/19/1978	SS-8110	\$ 233.00
6625	Electrical And Elect	ANALYZER, TRANSISTOR FET	06/20/1978	SS-8110	\$ 195.00
6625	Electrical And Elect	CALIBRATOR DC VOLTAGE	06/01/1984	SS-8110	\$ 3,964.00
6625	Electrical And Elect	OSCILLOSCOPE	06/01/1984	SS-8110	\$ 7,055.00
6625	Electrical And Elect	VOLTMETER DC DIFFERENTIAL	01/03/1966	SS-8110	\$ 1,325.00
6625	Electrical And Elect	TRANSDUCER CALIBRATION SYSTEM	07/30/1980	SS-8120	\$ 4,905.00
6625	Electrical And Elect	POWER SUPPLY	05/14/1976	SS-8110	\$ 400.00

6625	Electrical And Elect	OSCILLOSCOPE	02/06/1979	SS-8110	\$ 3,091.00
6625	Electrical And Elect	METER STANDING WAVE	11/30/1964	SS-8110	\$ 353.00
6625	Electrical And Elect	GENERATOR, SIGNAL, PLUG-IN	04/06/1978	SS-8110	\$ 1,019.00
6625	Electrical And Elect	CALIBRATOR A-C PROGRAMMABLE	06/16/1978	SS-8110	\$ 5,026.00
6625	Electrical And Elect	AMPLIFIER POWER	05/24/1978	SS-8110	\$ 3,672.00
6625	Electrical And Elect	OSCILLOSCOPE	02/20/1979	SS-8110	\$ 2,220.00
6625	Electrical And Elect	GENERATOR, PULSE, PLUG-IN	09/13/1977	SS-8110	\$ 1,067.00
6625	Electrical And Elect	VOLTMETER AC	01/10/1977	SS-8110	\$ 446.00
6625	Electrical And Elect	RESISTOR POWER	09/14/1967	SS-8110	\$ 175.00
6625	Electrical And Elect	TESTER ELECTRON TUBE	02/03/1965	SS-8110	\$ 415.00
6625	Electrical And Elect	ANALYZER, TRANSISTOR FET	06/20/1978	SS-8110	\$ 195.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	07/27/1976	SS-8110	\$ 522.00
6625	Electrical And Elect	MULTIMETER	10/05/1964	SS-8110	\$ 55.00
6625	Electrical And Elect	POWER SUPPLY	05/14/1976	SS-8110	\$ 400.00
6625	Electrical And Elect	OSCILLOSCOPE	02/20/1979	SS-8110	\$ 2,220.00
6625	Electrical And Elect	MULTIMETER	08/14/1965	SS-8110	\$ 52.00
6625	Electrical And Elect	MULTIMETER	06/16/1967	SS-8110	\$ 65.00
6625	Electrical And Elect	CALIBRATOR VOLTAGE	04/03/1985	SS-8110	\$ 4,141.00
6625	Electrical And Elect	METER POWER	04/03/1985	SS-8110	\$ 3,213.00
6625	Electrical And Elect	CALIBRATOR DOSIMETER	09/12/1983	SS-8110	\$ 330.00
6625	Electrical And Elect	SLOTTED LINE	05/23/1985	SS-8110	\$ 4,500.00
6625	Electrical And Elect	CALIBRATOR	05/30/1985	SS-8110	\$ 709.00
6625	Electrical And Elect	ANALYZER, SIGNATURE	06/03/1985	SS-8110	\$ 995.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	06/03/1985	SS-8110	\$ 402.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	06/03/1985	SS-8110	\$ 402.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	06/03/1985	SS-8110	\$ 402.00
6625	Electrical And Elect	STANDARD, TRANSFER	06/11/1985	SS-8110	\$ 3,060.00
6625	Electrical And Elect	WORKSTATION, POWER MODULE	06/11/1985	SS-8110	\$ 1,125.00
6625	Electrical And Elect	SENSOR POWER	04/05/1985	SS-8110	\$ 1,325.00
6625	Electrical And Elect	AMPLIFIER, DUAL TRACE, PLUG-IN	05/15/1986	SS-8110	\$ 2,180.00
6625	Electrical And Elect	AMPLIFIER, DUAL TRACE, PLUG-IN	05/15/1986	SS-8110	\$ 2,180.00
6625	Electrical And Elect	AMPLIFIER, DUAL TRACE, PLUG-IN	05/15/1986	SS-8110	\$ 2,180.00
6625	Electrical And Elect	AMPLIFIER, DUAL TRACE, PLUG-IN	05/15/1986	SS-8110	\$ 2,180.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL PLUG-N	05/15/1986	SS-8110	\$ 1,658.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL PLUG-N	05/15/1986	SS-8110	\$ 1,658.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL PLUG-N	05/15/1986	SS-8110	\$ 1,658.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL PLUG-N	05/15/1986	SS-8110	\$ 1,658.00
6625	Electrical And Elect	AMPLIFIER, DIFFERENTIAL PLUG-N	07/06/1990	SS-8110	\$ 4,556.00
6625	Electrical And Elect	GENERATOR, SIGNAL	06/19/1990	SS-8110	\$ 3,443.00
6625	Electrical And Elect	GENERATOR, SIGNAL	06/14/1990	SS-8110	\$ 4,801.00

6625	Electrical And Elect	OSCILLOSCOPE, DIGITAL	08/09/1990	SS-8110	\$ 8,497.00
6625	Electrical And Elect	RING, PROVING	01/30/1991	SS-8110	\$ 8,448.00
6625	Electrical And Elect	RING, PROVING	01/30/1991	SS-8110	\$ 7,893.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	03/11/1988	SS-8110	\$ 770.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	03/11/1988	SS-8110	\$ 770.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	03/11/1988	SS-8110	\$ 770.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	03/11/1988	SS-8120	\$ 770.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	03/11/1988	SS-8120	\$ 770.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	03/11/1988	SS-8110	\$ 770.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	03/11/1988	SS-8110	\$ 770.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	03/14/1988	SS-8110	\$ 1,591.00
6625	Electrical And Elect	OSCILLOSCOPE	03/14/1988	SS-8110	\$ 10,056.00
6625	Electrical And Elect	OSCILLOSCOPE	04/20/1988	SS-8110	\$ 3,835.00
6625	Electrical And Elect	MODULE MAIN FRAME POWER	04/20/1988	SS-8110	\$ 945.00
6625	Electrical And Elect	SYNTHESIZER FUNCTION GENERATOR	04/25/1988	SS-8110	\$ 4,324.00
6625	Electrical And Elect	SYNTHESIZER FUNCTION GENERATOR	04/25/1988	SS-8110	\$ 4,324.00
6625	Electrical And Elect	SYNTHESIZER FUNCTION GENERATOR	04/25/1988	SS-8110	\$ 4,324.00
6625	Electrical And Elect	SYNTHESIZER FUNCTION GENERATOR	04/25/1988	SS-8110	\$ 4,324.00
6625	Electrical And Elect	MODULE SENSOR	05/10/1988	SS-8110	\$ 1,922.00
6625	Electrical And Elect	VOLTAGE STANDARD	05/07/1991	SS-8110	\$ 6,100.00
6625	Electrical And Elect	ANALYZER, CAPACITOR/INDUCTOR	03/12/1990	SS-8110	\$ 995.00
6625	Electrical And Elect	GENERATOR, SIGNAL	03/12/1990	SS-8110	\$ 6,984.00
6625	Electrical And Elect	COUNTER, UNIVERSAL	03/20/1990	SS-8110	\$ 6,818.00
6625	Electrical And Elect	COUNTER, UNIVERSAL	03/20/1990	SS-8110	\$ 6,818.00
6625	Electrical And Elect	COUNTER, UNIVERSAL	03/20/1990	SS-8110	\$ 6,818.00
6625	Electrical And Elect	SOURCE, MEASURE UNIT	05/02/1990	SS-8110	\$ 6,806.00
6625	Electrical And Elect	COUNTER, FREQUENCY	05/08/1990	SS-8110	\$ 10,560.00
6625	Electrical And Elect	METER, POWER	06/04/1990	SS-8110	\$ 1,425.00
6625	Electrical And Elect	OSCILLATOR	04/15/1984	SS-8110	\$ 500.00
6625	Electrical And Elect	ANALYZER, SIGNAL	07/18/1990	SS-8110	\$ 16,678.00
6625	Electrical And Elect	AMPLIFIER, CONDITIONING	07/18/1990	SS-8110	\$ 6,000.00
6625	Electrical And Elect	AMPLIFIER, CONDITIONING	07/18/1990	SS-8110	\$ 6,000.00
6625	Electrical And Elect	TEST UNIT, CALIBRATION	07/18/1990	SS-8110	\$ 684.00
6625	Electrical And Elect	EXCITER, VIBRATION	07/18/1990	SS-8110	\$ 6,120.00
6625	Electrical And Elect	MULTIMETER	07/31/1990	SS-8100	\$ 389.00
6625	Electrical And Elect	MULTIMETER	07/31/1990	SS-8100	\$ 389.00
6625	Electrical And Elect	LOAD, ELECTRONIC	07/30/1990	SS-8110	\$ 3,390.00
6625	Electrical And Elect	AMPLIFIER, POWER	07/27/1990	SS-8110	\$ 4,944.00
6625	Electrical And Elect	CALIBRATOR, DC VOLTAGE	08/06/1990	SS-8110	\$ 5,635.00
6625	Electrical And Elect	TRACKER	08/09/1990	SS-8110	\$ 1,895.00
6625	Electrical And Elect	METER, HAND-HELD CONDUCTIVITY	08/09/1990	SS-8100	\$ 835.00
6625	Electrical And Elect	CALIBRATOR	08/25/1990	SS-8110	\$ 6,670.00
6625	Electrical And Elect	SCANNER, STANDARD CELL	09/14/1990	SS-8110	\$ 6,110.00

6625	Electrical And Elect	SCANNER, STANDARD CELL	09/14/1990	SS-8110	\$ 6,510.00
6625	Electrical And Elect	CALIBRATOR, GAMMA SURVEY METER	09/28/1990	SS-8110	\$ 2,485.00
6625	Electrical And Elect	CALIBRATOR, AC/DC CURRENT	10/15/1990	SS-8110	\$ 4,795.00
6625	Electrical And Elect	BRIDGE, RESISTANCE	12/06/1990	SS-8110	\$ 53,650.00
6625	Electrical And Elect	RING, PROVING	01/30/1991	SS-8110	\$ 8,755.00
6625	Electrical And Elect	COUNTER, UNIVERSAL	09/19/1991	SS-8110	\$ 8,263.00
6625	Electrical And Elect	COUNTER, UNIVERSAL	09/19/1991	SS-8110	\$ 8,263.00
6625	Electrical And Elect	CALIBRATION SYSTEM	02/24/1992	SS-8110	\$ 52,376.00
6625	Electrical And Elect	GENERATOR, SIGNAL	05/28/1992	SS-8110	\$ 55,955.00
6625	Electrical And Elect	OSCILLOSCOPE	06/12/1992	SS-8110	\$ 4,695.00
6625	Electrical And Elect	CELL STANDARD ENCLOSURE	11/08/1967	SS-8110	\$ 1,207.00
6625	Electrical And Elect	STANDARD, DC VOLTAGE REFERENCE	08/27/1992	SS-8110	\$ 10,445.00
6625	Electrical And Elect	STANDARD, DC VOLTAGE REFERENCE	08/27/1992	SS-8110	\$ 10,445.00
6625	Electrical And Elect	STANDARD, DC VOLTAGE REFERENCE	08/27/1992	SS-8110	\$ 10,445.00
6625	Electrical And Elect	GENERATOR, SINE WAVE	04/23/1993	SS-8110	\$ 10,838.00
6625	Electrical And Elect	CALIBRATOR	05/11/1993	SS-8110	\$ 23,453.00
6625	Electrical And Elect	AMPLIFIER, POWER	05/11/1993	SS-8110	\$ 15,170.00
6625	Electrical And Elect	PROBE, HIGH FREQUENCY	06/23/1993	SS-8110	\$ 2,173.00
6625	Electrical And Elect	VOLTMETER	02/16/1994	SS-8110	\$ 3,835.00
6625	Electrical And Elect	VOLTMETER	02/16/1994	SS-8110	\$ 3,835.00
6625	Electrical And Elect	TEST FIXTURE, CALIBRATION	03/07/1994	SS-8110	\$ 11,375.00
6625	Electrical And Elect	TEST FIXTURE, CALIBRATION	03/07/1994	SS-8110	\$ 13,620.00
6625	Electrical And Elect	VOLTMETER	03/21/1994	SS-8110	\$ 2,251.00
6625	Electrical And Elect	VOLTMETER	03/21/1994	SS-8110	\$ 2,251.00
6625	Electrical And Elect	POWER SUPPLY	03/21/1994	SS-8110	\$ 625.00
6625	Electrical And Elect	POWER SUPPLY	03/21/1994	SS-8110	\$ 625.00
6625	Electrical And Elect	VOLTMETER	03/22/1994	SS-8110	\$ 2,251.00
6625	Electrical And Elect	VOLTMETER	03/22/1994	SS-8110	\$ 2,251.00
6625	Electrical And Elect	OSCILLOSCOPE	03/30/1994	SS-8110	\$ 9,091.00
6625	Electrical And Elect	BRIDGE, CAPACITANCE	04/04/1994	SS-8110	\$ 11,802.00
6625	Electrical And Elect	MULTIMETER	04/26/1994	SS-8110	\$ 7,314.00
6625	Electrical And Elect	DIGIBRIDGE, RLC	04/26/1994	SS-8110	\$ 6,455.00
6625	Electrical And Elect	POWER SOURCE, AC	05/17/1994	SS-8110	\$ 910.00
6625	Electrical And Elect	GENERATOR, SYNTHESIZER	07/14/1994	SS-8110	\$ 5,145.00
6625	Electrical And Elect	CONVERTER, MICROWAVE	09/19/1994	SS-8110	\$ 8,197.00
6625	Electrical And Elect	FABRICATOR, CIRCUIT BOARD	09/22/1994	SS-8110	\$ 12,995.00
6625	Electrical And Elect	STANDARD, TRANSFER	12/09/1994	SS-8110	\$ 4,395.00
6625	Electrical And Elect	STANDARD, TRANSFER	12/09/1994	SS-8110	\$ 6,995.00
6625	Electrical And Elect	METER, GAUSS/TESLA	05/08/1995	SS-8110	\$ 659.00
6625	Electrical And Elect	CALIBRATOR, METER	07/06/1995	SS-8110	\$ 24,863.00
6625	Electrical And Elect	DIVIDER, VOLTAGE	05/01/1996	SS-8110	\$ 1,995.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00

6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	MULTIMETER	12/12/1996	SS-8110	\$ 945.00
6625	Electrical And Elect	ANALYZER, SIGNAL	01/03/1997	SS-8110	\$ 16,454.00
6625	Electrical And Elect	COUNTER, UNIVERSAL	04/30/1998	SS-8110	\$ 2,332.00
6625	Electrical And Elect	MULTIMETER, CLAMP-ON, DIGITAL	08/02/1999	SS-8110	\$ 199.00
6625	Electrical And Elect	CALIBRATOR,HAND HELD	04/27/2001	SS-8110	\$ 1,455.00
6625	Electrical And Elect	MULTIMETER	06/21/2001	SS-8110	\$ 6,380.00
6625	Electrical And Elect	MULTIMETER	06/21/2001	SS-8110	\$ 6,380.00
6625	Electrical And Elect	METER,CONDUCTIVITY	01/21/2003	SS-8100	\$ 2,529.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	07/13/2004	SS-8110	\$ 1,066.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	07/13/2004	SS-8110	\$ 1,066.00
6625	Electrical And Elect	MULTIMETER	01/26/2005	SS-8110	\$ 349.00
6625	Electrical And Elect	MULTIMETER	01/26/2005	SS-8110	\$ 349.00
6625	Electrical And Elect	DETECTOR, NULL	02/07/2005	SS-8110	\$ 1,295.00
6625	Electrical And Elect	VOLTAGE STANDARD, D.C.	04/14/2005	SS-8110	\$ 10,000.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	09/25/2006	SS-8110	\$ 6,825.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	10/02/2006	SS-8110	\$ 6,825.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	10/02/2006	SS-8110	\$ 6,825.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	05/01/2008	SS-8110	\$ 15,856.00
6625	Electrical And Elect	GENERATOR, SYNTHESIZER/FUNCTIO	05/09/1997	SS-8110	\$ 6,512.00
6625	Electrical And Elect	GENERATOR, SYNTHESIZER/FUNCTIO	05/09/1997	SS-8110	\$ 6,512.00
6625	Electrical And Elect	SWITCH/CONTROL UNIT	05/23/1997	SS-8110	\$ 1,859.00
6625	Electrical And Elect	SWITCH/CONTROL UNIT	05/23/1997	SS-8110	\$ 1,859.00
6625	Electrical And Elect	SWITCH/CONTROL UNIT	05/23/1997	SS-8110	\$ 1,859.00
6625	Electrical And Elect	SWITCH/CONTROL UNIT	05/23/1997	SS-8110	\$ 1,859.00
6625	Electrical And Elect	CALIBRATOR, METER	09/22/1997	SS-8110	\$ 26,161.00
6625	Electrical And Elect	MULTIMETER	09/26/1997	SS-8110	\$ 6,393.00
6625	Electrical And Elect	SWITCHER	09/27/1997	SS-8110	\$ 735.00
6625	Electrical And Elect	STANDARD, RESISTANCE	09/27/1997	SS-8110	\$ 1,646.00
6625	Electrical And Elect	STANDARD, RESISTANCE	09/27/1997	SS-8110	\$ 1,646.00
6625	Electrical And Elect	STANDARD AC/DC TRANSFER	09/27/1997	SS-8110	\$ 33,465.00
6625	Electrical And Elect	TRACKER	10/03/1997	SS-8110	\$ 1,655.00
6625	Electrical And Elect	TRACKER	10/23/1997	SS-8110	\$ 1,655.00
6625	Electrical And Elect	SWITCHER	10/23/1997	SS-8110	\$ 735.00
6625	Electrical And Elect	POWER SUPPLY	11/19/1997	SS-8110	\$ 671.00
6625	Electrical And Elect	MULTIMETER	12/17/1997	SS-8110	\$ 7,438.00
6625	Electrical And Elect	POWER SUPPLY	04/03/1998	SS-8110	\$ 3,709.00
6625	Electrical And Elect	STANDARD, AC MEASUREMENT	09/28/1999	SS-8110	\$ 21,816.00

6625	Electrical And Elect	CALIBRATOR,LOAD CELL	04/22/2002	SS-8110	\$ 2,960.00
6625	Electrical And Elect	CALIBRATOR,LOAD CELL	04/22/2002	SS-8110	\$ 2,960.00
6625	Electrical And Elect	METER, CONDUCTIVITY/PH	04/08/2003	SS-8100	\$ 1,353.00
6625	Electrical And Elect	SOURCE, TEST; AM/FM	01/21/2005	SS-8110	\$ 2,750.00
6625	Electrical And Elect	MULTIMETER	02/01/2005	SS-8110	\$ 975.00
6625	Electrical And Elect	MULTIMETER	02/01/2005	SS-8110	\$ 975.00
6625	Electrical And Elect	MULTIMETER	02/01/2005	SS-8110	\$ 975.00
6625	Electrical And Elect	MULTIMETER	02/01/2005	SS-8110	\$ 975.00
6625	Electrical And Elect	MULTIMETER	02/01/2005	SS-8110	\$ 975.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	07/31/2006	SS-8110	\$ 1,084.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	07/31/2006	SS-8110	\$ 1,084.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	07/31/2006	SS-8110	\$ 1,084.00
6625	Electrical And Elect	METER, CONDUCTIVITY	07/13/2007	SS-8100	\$ 695.00
6625	Electrical And Elect	CALIBRATOR, MULTIFUNCTION	04/17/2008	SS-8110	\$ 40,192.00
6625	Electrical And Elect	CALIBRATOR, OSCILLOSCOPE	05/07/2008	SS-8110	\$ 42,656.00
6625	Electrical And Elect	CALIBRATION MODULE, MICROPHONE	06/16/2008	SS-8110	\$ 6,669.00
6625	Electrical And Elect	OSCILLOSCOPE	09/04/2008	SS-8110	\$ 10,395.00
6625	Electrical And Elect	COUNTER, FREQUENCY	09/22/2008	SS-8110	\$ 3,951.00
6625	Electrical And Elect	STANDARD, GPS FREQUENCY	10/15/2008	SS-8110	\$ 6,746.00
6625	Electrical And Elect	MULTIMETER, HAND HELD DIGITAL	02/08/1989	SS-9801	\$ 345.00
6625	Electrical And Elect	ANALYZER, DISTORTION	02/24/1989	SS-8110	\$ 3,862.00
6625	Electrical And Elect	ANALYZER, DISTORTION	03/06/1989	SS-8110	\$ 3,862.00
6625	Electrical And Elect	DIVIDER, DECADE VOLTAGE	03/21/1989	SS-8110	\$ 290.00
6625	Electrical And Elect	DIVIDER, DECADE VOLTAGE	03/21/1989	SS-8110	\$ 290.00
6625	Electrical And Elect	THERMISTOR, TEMP. STABILIZED	03/28/1989	SS-8110	\$ 3,329.00
6625	Electrical And Elect	TRACKER	03/30/1989	SS-8110	\$ 1,800.00
6625	Electrical And Elect	SWITCHER	03/30/1989	SS-8110	\$ 775.00
6625	Electrical And Elect	COUNTER, UNIVERSAL FREQUENCY	04/07/1989	SS-8110	\$ 3,956.00
6625	Electrical And Elect	SYNTHESIZER, WAVEFORM	04/18/1989	SS-8110	\$ 4,265.00
6625	Electrical And Elect	COUNTER, FREQUENCY	05/03/1989	SS-8110	\$ 2,075.00
6625	Electrical And Elect	COUNTER, FREQUENCY	05/03/1989	SS-8110	\$ 2,075.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	05/03/1989	SS-8110	\$ 1,395.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	05/03/1989	SS-8110	\$ 1,395.00
6625	Electrical And Elect	MULTIMETER, DIGITAL	05/03/1989	SS-8110	\$ 1,395.00
6625	Electrical And Elect	MICROMETER, SUPER	05/08/1989	SS-8110	\$ 28,475.00
6625	Electrical And Elect	BLOCKS, SET GAGE	05/12/1989	SS-8110	\$ 2,236.00
6625	Electrical And Elect	POWER SUPPLY, DUAL	05/12/1989	SS-8110	\$ 1,123.00
6625	Electrical And Elect	POWER SUPPLY, DUAL	05/12/1989	SS-8110	\$ 1,123.00
6625	Electrical And Elect	POWER SUPPLY, DUAL	05/12/1989	SS-8110	\$ 1,123.00
6625	Electrical And Elect	POWER SUPPLY	05/12/1989	SS-8110	\$ 1,154.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	05/26/1989	SS-8110	\$ 1,872.00

6625	Electrical And Elect	TIME BASE, PLUG-IN	05/26/1989	SS-8110	\$ 1,872.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	05/26/1989	SS-8110	\$ 1,872.00
6625	Electrical And Elect	TIME BASE, PLUG-IN	05/26/1989	SS-8110	\$ 1,872.00
6625	Electrical And Elect	OSCILLOSCOPE, MAINFRAME	05/26/1989	SS-8110	\$ 11,499.00
6625	Electrical And Elect	OSCILLOSCOPE, MAINFRAME	05/26/1989	SS-8110	\$ 11,499.00
6625	Electrical And Elect	OSCILLOSCOPE, MAINFRAME	05/26/1989	SS-8110	\$ 11,499.00
6625	Electrical And Elect	POWER SUPPLY	06/09/1989	SS-8110	\$ 646.00
6625	Electrical And Elect	POWER SUPPLY	06/09/1989	SS-8110	\$ 646.00
6625	Electrical And Elect	POWER SUPPLY	06/09/1989	SS-8110	\$ 646.00
6625	Electrical And Elect	READOUT, DIGITAL MICROPROC.GEO	06/09/1989	SS-8110	\$ 1,738.00
6625	Electrical And Elect	WATTMETER	07/06/1989	SS-8110	\$ 2,150.00
6625	Electrical And Elect	CALIBRATOR	08/11/1989	SS-8110	\$ 22,509.00
6625	Electrical And Elect	AMPLIFIER	08/11/1989	SS-8110	\$ 7,473.00
6630	Chemical Analysis In	ANALYZER, OXYGEN PARAMAGNETIC	10/12/1988	SS-8100	\$ 5,528.00
6630	Chemical Analysis In	METER, PH	05/09/1997	SS-8100	\$ 500.00
6630	Chemical Analysis In	CONTROL, HYDRAULIC POWER	03/09/1987	SS-8110	\$ 3,226.00
6630	Chemical Analysis In	WATERSYSTEM MILLI-Q	04/20/1987	SS-8100	\$ 1,800.00
6630	Chemical Analysis In	CHROMATOGRAPH, GAS	02/19/1986	SS-8100	\$ 4,650.00
6630	Chemical Analysis In	ANALYZER, HYDROCARBON	04/25/1986	SS-8100	\$ 3,950.00
6630	Chemical Analysis In	WATER SYSTEM MILLI Q REAGENT	01/01/1984	SS-8100	\$ 1,653.00
6630	Chemical Analysis In	INTERFACE	04/19/1988	SS-8110	\$ 895.00
6630	Chemical Analysis In	INTERFACE	05/12/1988	SS-8110	\$ 895.00
6630	Chemical Analysis In	METER, DISSOLVED OXYGEN	04/02/1991	SS-8100	\$ 849.00
6630	Chemical Analysis In	ANALYZER, HYDROCARBON	10/07/1993	SS-8100	\$ 6,830.00
6630	Chemical Analysis In	PROCESSOR, ULTRASONIC LIQUID	01/12/1994	SS-8100	\$ 2,925.00
6630	Chemical Analysis In	ANALYZER, MOISTURE	03/29/1994	SS-8110	\$ 6,845.00
6630	Chemical Analysis In	TITRATOR, MOISTURE	09/26/1994	SS-8100	\$ 6,684.00
6630	Chemical Analysis In	SPECTROMETER, PLASMA	12/11/1995	SS-8100	\$ 68,840.00
6630	Chemical Analysis In	CHROMATOGRAPH, GAS	09/23/1996	SS-8100	\$ 26,865.00
6630	Chemical Analysis In	METER, PH	07/01/1998	SS-8100	\$ 703.00
6630	Chemical Analysis In	METER, PH	09/06/2000	SS-8100	\$ 539.00
6630	Chemical Analysis In	METER, PH; DIGITAL	03/03/2005	SS-8100	\$ 629.00
6630	Chemical Analysis In	METER, PH	06/27/2005	SS-8100	\$ 1,579.00

6630	Chemical Analysis In	METER, PH	01/25/2008	SS-8110	\$ 520.00
6630	Chemical Analysis In	CHROMATOGRAPH, GAS	06/27/1997	SS-8100	\$ 50,286.00
6630	Chemical Analysis In	METER, DISSOLVED OXYGEN	11/25/1997	SS-8100	\$ 1,975.00
6630	Chemical Analysis In	TURBIDIMETER	06/11/1998	SS-8100	\$ 2,157.00
6630	Chemical Analysis In	CHROMATOGRAPH, ION LIQUID	06/30/1998	SS-8100	\$ 28,327.00
6630	Chemical Analysis In	CHROMATOGRAPH, GAS	09/11/1998	SS-8100	\$ 42,069.00
6630	Chemical Analysis In	SONICATOR	02/23/2000	SS-8100	\$ 1,815.00
6630	Chemical Analysis In	AUTOSAMPLER	05/17/2000	SS-8100	\$ 4,630.00
6630	Chemical Analysis In	METER, DISSOLVED OXYGEN	09/05/2000	SS-8100	\$ 646.00
6630	Chemical Analysis In	AUTOSAMPLER	02/20/2001	SS-8100	\$ 21,434.00
6630	Chemical Analysis In	METER,DISSOLVED OXYGEN	09/10/2001	SS-8100	\$ 2,431.00
6630	Chemical Analysis In	TITRATOR	02/27/2002	SS-8100	\$ 5,367.00
6630	Chemical Analysis In	CHROMATOGRAPH,GAS	07/01/2002	SS-8100	\$ 27,360.00
6630	Chemical Analysis In	ANALYZER,TOTAL ORGANIC	09/27/2002	SS-8100	\$ 18,050.00
6630	Chemical Analysis In	MODULE,SOLID SAMPLE	09/27/2002	SS-8100	\$ 9,750.00
6630	Chemical Analysis In	OPTION,TOTAL NITROGEN	09/25/2002	SS-8100	\$ 8,000.00
6630	Chemical Analysis In	METER,MULTIPARAMTR	12/03/2002	SS-8100	\$ 1,995.00
6630	Chemical Analysis In	AUTOSAMPLER	12/06/2002	SS-8100	\$ 14,975.00
6630	Chemical Analysis In	AUTOSAMPLER	12/24/2002	SS-8100	\$ 10,056.00
6630	Chemical Analysis In	GAUGE SYSTEM, GAS PISTON	04/11/2003	SS-8110	\$ 55,852.00
6630	Chemical Analysis In	CONTROLLER/CONVERTER	12/15/2003	SS-8100	\$ 1,792.00
6630	Chemical Analysis In	ANALYZER, MERCURY	09/28/2004	SS-8100	\$ 22,325.00
6630	Chemical Analysis In	EXTRACTOR, ROTARY	10/04/2004	SS-8100	\$ 4,267.00
6630	Chemical Analysis In	BLOCK, HOT	01/21/2005	SS-8100	\$ 4,155.00
6630	Chemical Analysis In	ANALYZER, MERCURY VAPOR	01/24/2005	SS-8110	\$ 6,799.00
6630	Chemical Analysis In	WORKSTATION, CONCENTRATION	02/14/2005	SS-8100	\$ 5,631.00
6630	Chemical Analysis In	AUTOSAMPLER	03/08/2005	SS-8100	\$ 10,937.00
6630	Chemical Analysis In	COMPARTMENT, COLUMN	03/08/2005	SS-8100	\$ 3,104.00
6630	Chemical Analysis In	ARRAY, PHOTODIODE	03/11/2005	SS-8100	\$ 9,660.00

6630	Chemical Analysis In	ANALYZER, TRACE OXYGEN	03/24/2005	SS-8100	\$ 4,995.00
6630	Chemical Analysis In	AUTOSAMPLER	04/04/2005	SS-8100	\$ 7,600.00
6630	Chemical Analysis In	TITRATOR, COULOMETRIC	04/04/2005	SS-8100	\$ 9,995.00
6630	Chemical Analysis In	SPECTROMETER	04/04/2005	SS-8100	\$ 136,328.00
6630	Chemical Analysis In	GENERATOR, HYDROGEN	05/10/2005	SS-8100	\$ 17,307.00
6630	Chemical Analysis In	ANALYZER, GAS	05/10/2005	SS-8100	\$ 16,505.00
6630	Chemical Analysis In	SPECTROMETER, MASS	11/16/2006	SS-8100	\$ 108,752.00
6630	Chemical Analysis In	CHROMATOGRAPH, GAS	03/29/2007	SS-8100	\$ 44,250.00
6630	Chemical Analysis In	CHROMATOGRAPH, ION LIQUID	05/31/2007	SS-8101	\$ 48,484.00
6630	Chemical Analysis In	CHROMATOGRAPH, GAS	08/30/2007	SS-8100	\$ 39,437.00
6630	Chemical Analysis In	TURBIDIMETER, DIGITAL	09/04/2008	SS-8110	\$ 2,896.00
6630	Chemical Analysis In	TITRATOR, POTENTIOMETRIC	09/05/2008	SS-8100	\$ 7,626.00
6630	Chemical Analysis In	TITRATOR, MOISTURE	09/10/2008	SS-8100	\$ 8,745.00
6630	Chemical Analysis In	ANALYZER, GAS	09/12/2008	SS-8100	\$ 8,844.00
6630	Chemical Analysis In	ANALYZER, GAS	09/12/2008	SS-8100	\$ 4,787.00
6630	Chemical Analysis In	ANALYZER, GAS	09/12/2008	SS-8100	\$ 4,787.00
6630	Chemical Analysis In	TITRATOR, POTENTIOMETER	09/18/2008	SS-8100	\$ 25,175.00
6630	Chemical Analysis In	CHROMATOGRAPH, GAS	09/29/2008	SS-8100	\$ 52,707.00
6630	Chemical Analysis In	METER, RADIATION SURVEY	05/04/1989	SS-8110	\$ 1,720.00
6630	Chemical Analysis In	SPECTROMETER, INFRARED	05/17/1988	SS-8100	\$ 95,837.00
6630	Chemical Analysis In	METER, RADIATION SURVEY	05/30/1989	SS-8110	\$ 1,720.00
6630	Chemical Analysis In	DETECTOR, GAS LEAK	07/06/1989	SS-8100	\$ 1,050.00
6635	Physical Properties	GENERATOR FREQUENCY	01/14/1987	SS-8110	\$ 1,140.00
6635	Physical Properties	POWER SUPPLY	01/14/1987	SS-8110	\$ 1,450.00
6635	Physical Properties	POTENTIOMETER	01/14/1987	SS-8110	\$ 1,610.00
6635	Physical Properties	CELL, DIFFERENTIAL PRESSURE	06/02/1987	SS-8110	\$ 4,825.00
6635	Physical Properties	CELL LOAD PRECISION 100000 CAP	11/04/1966	SS-8120	\$ 1,105.00
6635	Physical Properties	CELL LOAD PRECISION 100000 CAP	02/12/1966	SS-8120	\$ 1,105.00
6635	Physical Properties	MEASUREMENT MACHINE ROUNDNESS	05/27/1965	SS-8110	\$ 14,186.00
6635	Physical Properties	MEASURING MACHINE LINEAR HORIZ	05/27/1965	SS-8110	\$ 9,714.00
6635	Physical Properties	CELL STANDARD	07/28/1983	SS-8110	\$ 3,000.00

6635	Physical Properties	INDICATOR, DIGITAL TORQUE	08/20/1990	SS-8110	\$ 1,645.00
6635	Physical Properties	INDICATOR, DIGITAL TORQUE	08/20/1990	SS-8110	\$ 1,645.00
6635	Physical Properties	DEAD WEIGHT TESTER	03/08/1991	SS-8110	\$ 144,134.00
6635	Physical Properties	MEASUREMENT SYSTEM, LASER	01/28/1991	SS-8110	\$ 30,400.00
6635	Physical Properties	INDICATOR, DIGITAL TORQUE	06/02/1989	SS-8110	\$ 1,645.00
6635	Physical Properties	INDICATOR, DIGITAL TORQUE	06/02/1989	SS-8110	\$ 1,645.00
6635	Physical Properties	ANALYZER, SURFACE	07/01/1993	SS-8110	\$ 16,700.00
6635	Physical Properties	CLEANING SYSTEM, INSTRUMENT	07/13/1993	SS-8110	\$ 3,167.00
6635	Physical Properties	INDICATOR, DIGITAL TORQUE	07/15/1993	SS-8110	\$ 1,700.00
6635	Physical Properties	METER, DENSITY	08/05/1994	SS-8110	\$ 18,250.00
6635	Physical Properties	VIBRATION TEST SYSTEM	01/03/1996	SS-8120	\$ 39,825.00
6635	Physical Properties	CALIBRATOR, ACOUSTIC	05/08/1996	SS-8110	\$ 5,404.00
6635	Physical Properties	GAUGE, DIGITAL FORCE	05/09/2008	SS-8110	\$ 869.00
6635	Physical Properties	COMPARATOR, GAGE BLOCK	05/05/1998	SS-8110	\$ 30,455.00
6635	Physical Properties	AMPLIFIER, GAGING	04/08/1999	SS-8110	\$ 8,390.00
6635	Physical Properties	COMPARATOR, PNEUMATIC	12/06/2000	SS-8110	\$ 18,520.00
6635	Physical Properties	CALIBRATION CONTROL UNIT	09/07/2001	SS-8110	\$ 19,681.00
6635	Physical Properties	CALIBRATION CONTROL UNIT	09/07/2001	SS-8110	\$ 19,681.00
6635	Physical Properties	METER, DENSITY	05/20/2002	SS-8100	\$ 9,180.00
6635	Physical Properties	CHANGER, SAMPLE ANALYZER	05/20/2002	SS-8100	\$ 11,665.00
6635	Physical Properties	TESTER, HARDNESS; PORTABLE	12/03/2002	SS-8110	\$ 7,290.00
6635	Physical Properties	COMPARATOR, GAGE BLOCK	01/23/2003	SS-8110	\$ 10,335.00
6635	Physical Properties	CALIBRATION MACHINE, UNIVERSAL	09/23/2004	SS-8110	\$ 12,344.00
6635	Physical Properties	COMPARATOR, OPTICAL	06/17/2005	SS-8110	\$ 59,795.00
6635	Physical Properties	CALIBRATOR, HANDHELD	08/30/2006	SS-8110	\$ 3,560.00
6635	Physical Properties	INDICATOR, TORQUE	08/24/2007	SS-8110	\$ 1,920.00
6635	Physical Properties	INDICATOR, TORQUE	08/24/2007	SS-8110	\$ 1,920.00
6635	Physical Properties	METER, DENSITY	08/30/2007	SS-8110	\$ 20,310.00
6635	Physical Properties	SUPERMICROMETER ELECTROLIMIT	12/23/1965	SS-8110	\$ 1,650.00
6635	Physical Properties	SEPARATOR, ALLOY	04/03/1989	SS-8100	\$ 3,950.00
6635	Physical Properties	CALIBRATION SYSTEM, MANUAL TOR	06/02/1989	SS-8110	\$ 27,403.00
6635	Physical Properties	TESTER, CABLE	06/06/1989	SS-8110	\$ 4,441.00
6635	Physical Properties	COMPARATOR, DEM	07/12/1989	SS-8110	\$ 8,765.00
6635	Physical Properties	COMPARATOR, DEM	07/12/1989	SS-8110	\$ 7,865.00
6635	Physical Properties	COMPARATOR, ELECTRONIC MASS	09/14/1989	SS-8110	\$ 4,350.00
6636	Environmental Chambe	TESTER ELECTRODYNAMIC VIBRATIO	05/12/1966	SS-8120	\$ 1,400.00

6636	Environmental Chambe	CALIBRATOR FIXTURE	10/22/1971	SS-8110	\$ 400.00
6636	Environmental Chambe	TESTING MACHINE ACCELERATION	04/18/1966	SS-8120	\$ 5,580.00
6636	Environmental Chambe	INCUBATOR	01/12/1999	SS-8100	\$ 1,392.00
6636	Environmental Chambe	TEST CHAMBER, TEMP/HUMIDITY	07/25/2005	SS-8110	\$ 31,901.00
6636	Environmental Chambe	OVEN, VACUUM	08/16/2005	SS-8100	\$ 3,623.00
6640	Laboratory Equipment	BATH, WATER	10/12/1988	SS-8100	\$ 708.00
6640	Laboratory Equipment	BATH OIL	01/14/1987	SS-8110	\$ 9,990.00
6640	Laboratory Equipment	CUBE OPTICAL	12/29/1965	SS-8110	\$ 1,287.00
6640	Laboratory Equipment	DISTILLATION APPARATUS	07/08/1975	SS-8100	\$ 300.00
6640	Laboratory Equipment	INCUBATOR ISOTEMP	09/25/1975	SS-8100	\$ 805.00
6640	Laboratory Equipment	BATH, WATER TRIPLE-POINT	06/05/1990	SS-8110	\$ 15,450.00
6640	Laboratory Equipment	BATH, REFRIGERATED	01/25/2006	SS-8110	\$ 5,115.00
6640	Laboratory Equipment	OVEN, ISOTEMP	07/17/2007	SS-8100	\$ 1,311.00
6650	Optical Instruments,	TELESCOPE ALIGNMENT-SERIE	09/07/1965	SS-8110	\$ 1,695.00
6650	Optical Instruments,	STAND COLLIMATING	12/16/1965	SS-8110	\$ 6,950.00
6650	Optical Instruments,	AUTOCOLLIMATOR VISUAL	12/01/1965	SS-8110	\$ 1,655.00
6650	Optical Instruments,	ULTRADEX POLYGON	03/11/1966	SS-8110	\$ 2,495.00
6650	Optical Instruments,	MICROSCOPE	04/17/1979	SS-8110	\$ 2,245.00
6650	Optical Instruments,	TELESCOPE ALIGNMENT SERIES	09/07/1965	SS-8110	\$ 1,695.00
6650	Optical Instruments,	MICROSCOPE	08/03/1967	SS-8100	\$ 708.00
6650	Optical Instruments,	MICROPOSITION ANGLE GENERATING	12/15/1965	SS-8110	\$ 2,678.00
6650	Optical Instruments,	AUTOCOLLIMATOR	07/06/1966	SS-8110	\$ 265.00
6650	Optical Instruments,	MICROSCOPE TOOL MAKER	05/11/1965	SS-8110	\$ 2,024.00
6650	Optical Instruments,	BINOCULARS, 8X56MM FIELD	03/27/1991	SS-9801	\$ 139.00
6650	Optical Instruments,	MICROSCOPE	04/05/1990	SS-8110	\$ 943.00
6650	Optical Instruments,	MICROSCOPE, ZOOM STEREO	09/10/1990	SS-8100	\$ 9,284.00
6650	Optical Instruments,	SPECTROPHOTOMETER	05/08/1996	SS-8100	\$ 5,349.00
6650	Optical Instruments,	SPECTROMETER	07/01/1998	SS-8100	\$ 46,286.00
6650	Optical Instruments,	MICROANALYSIS SYSTEM, IMAGING	01/10/2000	SS-8100	\$ 57,500.00

6650	Optical Instruments,	DETECTOR	01/10/2000	SS-8100	\$ 23,000.00
6650	Optical Instruments,	MICROSCOPE, SCANNING ELECTRON	01/10/2000	SS-8100	\$ 145,095.00
6650	Optical Instruments,	SPECTROMETER	01/16/2001	SS-8100	\$ 41,280.00
6650	Optical Instruments,	MICROSCOPE	05/20/2003	SS-8110	\$ 615.00
6650	Optical Instruments,	SPECTROMETER/MICROSCOPE SYSTEM	05/26/2005	SS-8100	\$ 114,888.00
6660	Meteorological Instr	MONITOR MOISTURE	02/13/1976	SS-8110	\$ 485.00
6665	Hazard-Detecting Ins	ALARM, PORTABLE	07/21/1994	SS-8110	\$ 1,365.00
6665	Hazard-Detecting Ins	ALARM, PORTABLE	07/21/1994	SS-8110	\$ 1,365.00
6665	Hazard-Detecting Ins	ALARM, PORTABLE	07/03/1995	SS-8110	\$ 1,332.00
6665	Hazard-Detecting Ins	SAMPLER, WASTEWATER	05/04/1987	SS-8100	\$ 1,403.00
6665	Hazard-Detecting Ins	SENSOR PRESSURE	07/17/1986	SS-8120	\$ 1,895.00
6665	Hazard-Detecting Ins	SENSOR PRESSURE	03/15/1988	SS-8120	\$ 1,895.00
6665	Hazard-Detecting Ins	DETECTOR, GAS LEAK	04/18/1988	SS-8100	\$ 950.00
6665	Hazard-Detecting Ins	ALARM, PORTABLE	06/12/1992	SS-8110	\$ 1,385.00
6665	Hazard-Detecting Ins	ANALYZING KIT, CHEMICAL AGENT	05/11/1993	SS-8100	\$ 7,387.00
6665	Hazard-Detecting Ins	DETECTOR, HELIUM LEAK	01/23/1997	SS-8110	\$ 20,710.00
6665	Hazard-Detecting Ins	DETECTOR, GAS	06/21/1995	SS-8110	\$ 2,112.00
6665	Hazard-Detecting Ins	DETECTOR,GAS LEAK	06/21/2002	SS-8100	\$ 1,375.00
6665	Hazard-Detecting Ins	SENSOR, PRESSURE	03/17/2003	SS-8110	\$ 2,537.00
6665	Hazard-Detecting Ins	SAMPLER, COMPOSITE	10/18/2006	SS-8100	\$ 2,401.00
6665	Hazard-Detecting Ins	SAMPLER, COMPOSITE	07/13/2007	SS-8100	\$ 2,467.00
6670	Scales And Balances	BALANCE, PRECISION	08/16/1988	SS-8110	\$ 2,146.00
6670	Scales And Balances	BALANCE, ELECTRONIC	12/24/1996	SS-8110	\$ 1,097.00
6670	Scales And Balances	BALANCE, ELECTRONIC ANALYTICAL	10/01/1986	SS-8100	\$ 2,537.00
6670	Scales And Balances	BALANCE, ANALYTICAL LABORATORY	05/11/1965	SS-8110	\$ 2,700.00
6670	Scales And Balances	BALANCE, ANALYTICAL LABORATORY	05/11/1965	SS-8110	\$ 1,820.00
6670	Scales And Balances	BALANCE, ANALYTICAL LABORATORY	05/12/1965	SS-8110	\$ 1,450.00
6670	Scales And Balances	BALANCE, ANALYTICAL LABORATORY	05/11/1965	SS-8110	\$ 1,805.00
6670	Scales And Balances	ELECTROBALANCE MANUAL 1.5 GRAM	11/02/1965	SS-8110	\$ 1,095.00

6670	Scales And Balances	BALANCE, ANALYTICAL LABORATORY	05/27/1965	SS-8110	\$ 2,900.00
6670	Scales And Balances	SCALE, PRECISION CHEMICAL	07/09/1990	SS-8100	\$ 1,268.00
6670	Scales And Balances	BALANCE,SCALE;ELECTRONIC	08/17/2001	SS-8100	\$ 1,925.00
6670	Scales And Balances	BALANCE,ANALYTICAL;ELECTRONIC	10/30/2002	SS-8100	\$ 2,588.00
6670	Scales And Balances	BALANCE, MICRO	09/19/2003	SS-8110	\$ 15,857.00
6670	Scales And Balances	BALANCE, ANALYTICAL LABORATORY	08/03/1989	SS-8110	\$ 9,798.00
6675	Drafting, Surveying,	THEODOLITE	07/26/1985	SS-8110	\$ 2,855.00
6675	Drafting, Surveying,	AUTOCOLLIMATOR MULTIPLE	12/29/1965	SS-8110	\$ 265.00
6675	Drafting, Surveying,	THEODELITE	07/30/1975	SS-8110	\$ 2,543.00
6675	Drafting, Surveying,	THEODOLITE DIRECTIONAL TYPE	06/11/1966	SS-8110	\$ 3,318.00
6680	Liquid And Gas Flow,	CIRCULATOR	05/20/1987	SS-8100	\$ 2,274.00
6680	Liquid And Gas Flow,	CIRCULATOR	05/20/1987	SS-8100	\$ 2,274.00
6680	Liquid And Gas Flow,	TESTER FLOWMETER LIQUID TYPE	05/07/1965	SS-8110	\$ 35,600.00
6680	Liquid And Gas Flow,	TESTER INSTRUMENT GAS VOLUME	05/07/1965	SS-8110	\$ 2,252.00
6680	Liquid And Gas Flow,	CALIBRATOR GAS FLOW	05/07/1965	SS-8110	\$ 4,100.00
6680	Liquid And Gas Flow,	CONTROLLER, MASS FLOW	09/07/1990	SS-8100	\$ 890.00
6680	Liquid And Gas Flow,	MONITOR, MOISTURE	05/23/1991	SS-8100	\$ 6,025.00
6680	Liquid And Gas Flow,	MONITOR, MOISTURE	05/23/1991	SS-8100	\$ 6,025.00
6680	Liquid And Gas Flow,	RECIRCULATOR, REFRIGERATED	04/04/2005	SS-8100	\$ 1,776.00
6680	Liquid And Gas Flow,	CALIBRATOR, GAS FLOW	12/16/2005	SS-8110	\$ 34,375.00
6685	Pressure, Temperatur	THERMOMETER SYSTEM SCANNING	05/31/1988	SS-8110	\$ 1,750.00
6685	Pressure, Temperatur	THERMOMETER, PLATINUM RESISTANCE	05/20/1991	SS-8110	\$ 3,650.00
6685	Pressure, Temperatur	CALIBRATOR, PRESSURE	04/29/1994	SS-8110	\$ 1,660.00
6685	Pressure, Temperatur	CALIBRATOR, PRESSURE	04/29/1994	SS-8110	\$ 1,660.00
6685	Pressure, Temperatur	CALIBRATOR, PRESSURE	04/29/1994	SS-8110	\$ 1,660.00
6685	Pressure, Temperatur	CALIBRATOR, PRESSURE	04/29/1994	SS-8110	\$ 1,445.00
6685	Pressure, Temperatur	CALIBRATOR, PRESSURE	04/29/1994	SS-8110	\$ 1,510.00
6685	Pressure, Temperatur	ANEMOMETER, DIGITAL	04/20/1992	SS-8120	\$ 550.00
6685	Pressure, Temperatur	ANEMOMETER, DIGITAL	04/20/1992	SS-8120	\$ 550.00
6685	Pressure, Temperatur	GAGE, PNEUMATIC, PORTABLE	03/11/1993	SS-8110	\$ 4,395.00

6685	Pressure, Temperatur	GAGE, PNEUMATIC, PORTABLE	03/11/1993	SS-8110	\$ 4,395.00
6685	Pressure, Temperatur	GAGE, PNEUMATIC, PORTABLE	03/11/1993	SS-8110	\$ 4,395.00
6685	Pressure, Temperatur	THERMOMETER, PLATINUM	05/24/1996	SS-8120	\$ 3,082.00
6685	Pressure, Temperatur	THERMOMETER, PLATINUM	05/24/1996	SS-8120	\$ 3,082.00
6685	Pressure, Temperatur	LOGGER, TEMPERATURE/HUMIDITY	09/17/1997	SS-8110	\$ 975.00
6685	Pressure, Temperatur	LOGGER, TEMPERATURE/HUMIDITY	09/17/1997	SS-8110	\$ 975.00
6685	Pressure, Temperatur	INDICATOR, PRESSURE, DIGITAL	09/09/1987	SS-8110	\$ 1,945.00
6685	Pressure, Temperatur	INDICATOR, PRESSURE, DIGITAL	09/09/1987	SS-8110	\$ 1,945.00
6685	Pressure, Temperatur	INDICATOR, PRESSURE, DIGITAL	09/09/1987	SS-8110	\$ 1,945.00
6685	Pressure, Temperatur	MANOMETER DIGITAL 5-1/2	07/27/1987	SS-8110	\$ 2,175.00
6685	Pressure, Temperatur	INDICATOR, PRESSURE, DIGITAL	10/15/1987	SS-8110	\$ 2,085.00
6685	Pressure, Temperatur	INDICATOR, PRESSURE, DIGITAL	10/15/1987	SS-8110	\$ 2,085.00
6685	Pressure, Temperatur	INDICATOR, PRESSURE, DIGITAL	10/15/1987	SS-8110	\$ 2,085.00
6685	Pressure, Temperatur	INDICATOR, PRESSURE, DIGITAL	10/15/1987	SS-8110	\$ 2,085.00
6685	Pressure, Temperatur	MANOMETER ELECTRONIC	07/17/1986	SS-8110	\$ 1,995.00
6685	Pressure, Temperatur	MANOMETER ELECTRONIC	07/17/1986	SS-8120	\$ 1,995.00
6685	Pressure, Temperatur	MANOMETER ELECTRONIC	07/17/1986	SS-8120	\$ 1,995.00
6685	Pressure, Temperatur	GAGE DIGITAL HEIGHT	07/24/1986	SS-8110	\$ 6,074.00
6685	Pressure, Temperatur	THERMOMETER	07/28/1983	SS-8110	\$ 1,200.00
6685	Pressure, Temperatur	CALIBRATOR VACUUM GAGE	05/07/1965	SS-8110	\$ 6,810.00
6685	Pressure, Temperatur	MANOMETER	12/08/1971	SS-8110	\$ 9,520.00
6685	Pressure, Temperatur	TESTER SYSTEM DEAD WEIGHT	05/27/1965	SS-8110	\$ 10,060.00
6685	Pressure, Temperatur	GAGE AIR PISTON	05/27/1965	SS-8110	\$ 3,275.00
6685	Pressure, Temperatur	BAROMETER	03/06/1975	SS-8110	\$ 50.00
6685	Pressure, Temperatur	BAROMETER	03/24/1964	SS-8110	\$ 78.00
6685	Pressure, Temperatur	TEMPERATURE/HUMIDITY CAL. CHAM	05/26/1987	SS-8110	\$ 20,480.00
6685	Pressure, Temperatur	GAGE PRESSURE DIRECT READING	05/31/1978	SS-8110	\$ 6,225.00
6685	Pressure, Temperatur	GAUGE, DIGITAL PRESSURE	08/13/1990	SS-8110	\$ 1,610.00
6685	Pressure, Temperatur	ANALYZER, HUMIDITY	02/08/1991	SS-8110	\$ 8,361.00

6685	Pressure, Temperatur	STANDARD, TEMPERATURE	03/07/1991	SS-8110	\$ 22,900.00
6685	Pressure, Temperatur	FURNACE, LOW TEMPERATURE	03/07/1991	SS-8110	\$ 49,155.00
6685	Pressure, Temperatur	ANEMOMETER, DIGITAL	03/25/1991	SS-8120	\$ 550.00
6685	Pressure, Temperatur	ANEMOMETER, DIGITAL	03/25/1991	SS-8120	\$ 550.00
6685	Pressure, Temperatur	ANALYZER, HUMIDITY	07/15/1993	SS-8110	\$ 8,864.00
6685	Pressure, Temperatur	THERMOMETER, PRECISION	06/08/1994	SS-8110	\$ 3,950.00
6685	Pressure, Temperatur	CONTROL UNIT, PRESSURE	07/11/1994	SS-8110	\$ 11,692.00
6685	Pressure, Temperatur	PROVER, BELL, GAS	04/05/1995	SS-8110	\$ 55,830.00
6685	Pressure, Temperatur	FURNACE, LOW TEMPERATURE	07/19/1995	SS-8110	\$ 11,290.00
6685	Pressure, Temperatur	THERMOMETER, PLATINUM	06/06/1996	SS-8110	\$ 2,590.00
6685	Pressure, Temperatur	THERMOMETER, PLATINUM	06/06/1996	SS-8110	\$ 1,405.00
6685	Pressure, Temperatur	FURNACE, BOX	09/12/1996	SS-8100	\$ 2,245.00
6685	Pressure, Temperatur	CONTROLLER, TEMPERATURE	02/04/1997	SS-8110	\$ 6,000.00
6685	Pressure, Temperatur	CONTROLLER, TEMPERATURE	02/04/1997	SS-8110	\$ 7,000.00
6685	Pressure, Temperatur	CONTROLLER, TEMPERATURE	02/04/1997	SS-8110	\$ 5,457.00
6685	Pressure, Temperatur	CONTROLLER, TEMPERATURE	02/04/1997	SS-8110	\$ 6,000.00
6685	Pressure, Temperatur	BATH, TEMPERATURE CALIBRATION	02/04/1997	SS-8110	\$ 15,000.00
6685	Pressure, Temperatur	BATH, TEMPERATURE CALIBRATION	02/04/1997	SS-8110	\$ 16,000.00
6685	Pressure, Temperatur	THERMOMETER, DIGITAL	02/14/1997	SS-8110	\$ 2,997.00
6685	Pressure, Temperatur	THERMOMETER, DIGITAL	02/14/1997	SS-8110	\$ 2,997.00
6685	Pressure, Temperatur	CALIBRATION SYSTEM, VACUUM	03/03/1997	SS-8110	\$ 41,500.00
6685	Pressure, Temperatur	STANDARD, TEMP. ASSY.	06/02/2004	SS-8110	\$ 4,957.00
6685	Pressure, Temperatur	REACTOR, THERMO	02/08/2005	SS-8100	\$ 726.00
6685	Pressure, Temperatur	REACTOR, THERMO	02/08/2005	SS-8100	\$ 726.00
6685	Pressure, Temperatur	TERMINAL, HAND-HELD	04/28/2009	SS-8110	\$ 986.00
6685	Pressure, Temperatur	CONTROLLER, HIGH PRESSURE	05/29/2002	SS-8110	\$ 21,807.00
6685	Pressure, Temperatur	CONTROLLER,GAS PRESSURE	09/16/2002	SS-8110	\$ 19,634.00
6685	Pressure, Temperatur	CONTROLLER,GAS PRESSURE	09/16/2002	SS-8110	\$ 14,850.00
6685	Pressure, Temperatur	MONITOR,GAS PRESSURE	09/16/2002	SS-8110	\$ 12,252.00

6685	Pressure, Temperatur	GAGE,PRESSURE	01/27/2003	SS-8110	\$ 12,500.00
6685	Pressure, Temperatur	CONTROLLER,CRYOGENIC TEMP.	02/05/2003	SS-8110	\$ 21,915.00
6685	Pressure, Temperatur	GAUGE, PRESSURE; DIGITAL	07/22/2004	SS-8110	\$ 3,015.00
6685	Pressure, Temperatur	GAUGE, PRESSURE; DIGITAL	07/22/2004	SS-8110	\$ 3,580.00
6685	Pressure, Temperatur	GENERATOR, LOW HUMIDITY	07/08/2005	SS-8110	\$ 49,900.00
6685	Pressure, Temperatur	HYGROMETER, DEWPOINT	01/25/2006	SS-8110	\$ 22,430.00
6685	Pressure, Temperatur	CONTROLLER, PRESSURE; DIGITAL	11/07/2006	SS-8110	\$ 14,521.00
6685	Pressure, Temperatur	CONTROLLER, PRESSURE; DIGITAL	11/13/2006	SS-8110	\$ 16,331.00
6685	Pressure, Temperatur	METER, PH	07/23/2007	SS-8100	\$ 870.00
6685	Pressure, Temperatur	CALIBRATOR, PRESSURE	07/30/2007	SS-8110	\$ 12,365.00
6685	Pressure, Temperatur	BRIDGE, RESISTANCE	09/12/2007	SS-8110	\$ 44,000.00
6685	Pressure, Temperatur	SCANNER, THERMAL MATRIX	09/12/2007	SS-8110	\$ 10,500.00
6685	Pressure, Temperatur	THERMOMETER	10/16/2007	SS-8110	\$ 2,171.00
6685	Pressure, Temperatur	CALIBRATOR, HAND HELD	06/05/2008	SS-8100	\$ 2,149.00
6685	Pressure, Temperatur	THERMOMETER	09/23/2008	SS-8110	\$ 17,720.00
6685	Pressure, Temperatur	APPARATUS, GALLIUM	12/19/2008	SS-8110	\$ 7,623.00
6685	Pressure, Temperatur	CALIBRATION SYSTEM, TEMPERATUR	11/01/1988	SS-8110	\$ 8,853.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-3407	\$ 3,340.00
6695	Combination And Misc	SAMPLER, COMPOSITE WASTEWATER	03/08/1990	SS-8100	\$ 1,526.00
6695	Combination And Misc	SAMPLER, COMPOSITE WASTEWATER	03/08/1990	SS-8100	\$ 1,526.00
6695	Combination And Misc	SAMPLER, WASTEWATER	05/22/1992	SS-8100	\$ 1,950.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	08/06/1996	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	08/06/1996	SS-8100	\$ 3,340.00
6695	Combination And Misc	PURIFICATION SYSTEM,WATER	09/16/2002	SS-8110	\$ 3,201.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	12/03/2008	SS-8100	\$ 5,320.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	12/03/2008	SS-8100	\$ 5,320.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	12/03/2008	SS-8100	\$ 5,320.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	12/03/2008	SS-8100	\$ 5,320.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00

6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-3407	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-3407	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6695	Combination And Misc	SAMPLER, CRYOGENIC	05/01/1989	SS-8100	\$ 3,340.00
6720	Cameras, Still Pictu	CAMERA	04/05/1990	SS-8110	\$ 581.00
6720	Cameras, Still Pictu	CAMERA	08/17/1999	SS-8110	\$ 560.00
6720	Cameras, Still Pictu	CAMERA, DIGITAL	11/04/2004	SS-8100	\$ 291.00
6720	Cameras, Still Pictu	CAMERA, DIGITAL	04/24/2007	SS-9801	\$ 317.00
6720	Cameras, Still Pictu	CAMERA, DIGITAL	07/10/2007	SS-8100	\$ 385.00
6720	Cameras, Still Pictu	CAMERA, DIGITAL	11/28/2005	SS-9801	\$ 270.00
6720	Cameras, Still Pictu	CAMERA, DIGITAL	03/14/2008	SS-8110	\$ 1,423.00
6720	Cameras, Still Pictu	CAMERA, DIGITAL	06/27/2008	SS-8110	\$ 140.00
6730	Photographic Project	PROJECTOR, LCD	05/23/2005	SS-8110	\$ 2,377.00
6760	Photographic Equipme	CAMERA SYSTEM	04/05/1990	SS-8110	\$ 2,815.00
7021	Adp Central Processi	COMPUTER, HAND HELD	07/01/1988	SS-8110	\$ 419.00
7021	Adp Central Processi	COMPUTER, HAND HELD	07/01/1988	SS-8110	\$ 419.00
7021	Adp Central Processi	COMPUTER, INTEGRAL PERSONAL	09/30/1988	SS-8110	\$ 8,500.00

7021	Adp Central Processi	COMPUTER, MICRO	02/23/1988	SS-8120	\$ 3,004.00
7021	Adp Central Processi	COMPUTER, MICRO	02/23/1988	SS-8110	\$ 3,004.00
7021	Adp Central Processi	COMPUTER, MICRO	01/14/1986	SS-8110	\$ 4,455.00
7021	Adp Central Processi	COMPUTER, MICRO	08/19/1992	SS-8110	\$ 935.00
7021	Adp Central Processi	COMPUTER, PERSONAL	07/01/1993	SS-8110	\$ 4,000.00
7021	Adp Central Processi	COMPUTER, MICRO	10/21/1993	SS-8110	\$ 1,549.00
7021	Adp Central Processi	COMPUTER, MICRO	04/11/1994	SS-8110	\$ 1,420.00
7021	Adp Central Processi	COMPUTER, MICRO	04/11/1994	SS-8110	\$ 1,420.00
7021	Adp Central Processi	COMPUTER, MICRO	04/05/1995	SS-8110	\$ 2,000.00
7021	Adp Central Processi	COMPUTER, MICRO	01/09/1997	SS-8110	\$ 1,095.00
7021	Adp Central Processi	COMPUTER, MICRO	01/09/1997	SS-8110	\$ 1,095.00
7021	Adp Central Processi	COMPUTER, MICRO	01/09/1997	SS-8110	\$ 1,095.00
7021	Adp Central Processi	COMPUTER, MICRO	01/09/1997	SS-8110	\$ 1,095.00
7021	Adp Central Processi	COMPUTER, MICRO	01/10/1997	SS-8100	\$ 3,142.00
7021	Adp Central Processi	COMPUTER, MICRO	11/16/2006	SS-8100	\$ 1,223.00
7021	Adp Central Processi	COMPUTER, MICRO	06/27/1997	SS-8100	\$ 3,000.00
7021	Adp Central Processi	COMPUTER, MICRO	07/16/1997	SS-8100	\$ 987.00
7021	Adp Central Processi	COMPUTER, MICRO	07/16/1997	SS-8110	\$ 987.00
7021	Adp Central Processi	COMPUTER, MICRO	07/16/1997	SS-8100	\$ 987.00
7021	Adp Central Processi	COMPUTER, MICRO	04/15/1998	SS-8100	\$ 4,900.00
7021	Adp Central Processi	COMPUTER, MICRO	05/05/1998	SS-8110	\$ 3,000.00
7021	Adp Central Processi	COMPUTER, MICRO	09/11/1998	SS-8100	\$ 3,000.00
7021	Adp Central Processi	COMPUTER, MICRO	03/29/1999	SS-8100	\$ 2,000.00
7021	Adp Central Processi	COMPUTER, LAPTOP	04/08/1999	SS-8110	\$ 3,000.00
7021	Adp Central Processi	COMPUTER, MICRO	01/10/2000	SS-8100	\$ 10,000.00
7021	Adp Central Processi	COMPUTER, MICRO	01/10/2000	SS-8100	\$ 1,355.00
7021	Adp Central Processi	COMPUTER, MICRO	07/18/2002	SS-8100	\$ 2,000.00
7021	Adp Central Processi	COMPUTER, LAPTOP	10/01/2002	SS-8110	\$ 1,025.00
7021	Adp Central Processi	COMPUTER, LAPTOP	11/01/2002	SS-8110	\$ 1,879.00

7021	Adp Central Processi	COMPUTER, LAPTOP	01/14/2004	SS-8110	\$ 1,717.00
7021	Adp Central Processi	COMPUTER, MICRO	02/20/2004	SS-8100	\$ 432.00
7021	Adp Central Processi	COMPUTER, MICRO	09/28/2004	SS-8100	\$ 765.00
7021	Adp Central Processi	COMPUTER, LAPTOP	12/07/2004	SS-8100	\$ 757.00
7021	Adp Central Processi	COMPUTER, MICRO	02/09/2005	SS-8100	\$ 9,034.00
7021	Adp Central Processi	COMPUTER, MICRO	04/04/2005	SS-8100	\$ 2,000.00
7021	Adp Central Processi	COMPUTER, LAPTOP	04/19/2005	SS-8110	\$ 1,547.00
7021	Adp Central Processi	COMPUTER, MICRO	05/16/2005	SS-8110	\$ 369.00
7021	Adp Central Processi	COMPUTER, MICRO	05/26/2005	SS-8100	\$ 1,263.00
7021	Adp Central Processi	COMPUTER, MICRO	05/26/2005	SS-8100	\$ 1,263.00
7021	Adp Central Processi	COMPUTER, LAPTOP	05/31/2005	SS-1100	\$ 1,822.00
7021	Adp Central Processi	COMPUTER, MICRO	03/29/2007	SS-8100	\$ 871.00
7021	Adp Central Processi	COMPUTER, MICRO	08/30/2007	SS-8100	\$ 7,285.00
7021	Adp Central Processi	COMPUTER, MICRO	09/13/2007	SS-8100	\$ 1,015.00
7021	Adp Central Processi	COMPUTER, MICRO	12/03/2007	SS-8100	\$ 642.00
7021	Adp Central Processi	COMPUTER, MICRO	12/03/2007	SS-8100	\$ 642.00
7021	Adp Central Processi	COMPUTER, MICRO	12/03/2007	SS-8100	\$ 642.00
7021	Adp Central Processi	COMPUTER, MICRO	12/03/2007	SS-8100	\$ 642.00
7021	Adp Central Processi	COMPUTER, MICRO	12/03/2007	SS-8100	\$ 642.00
7021	Adp Central Processi	COMPUTER, MICRO	09/29/2008	SS-8100	\$ 680.00
7021	Adp Central Processi	COMPUTER, MICRO	05/22/1989	SS-8110	\$ 3,015.00
7025	Adp Input/Output And	PRINTER, ADP	05/31/1988	SS-8110	\$ 324.00
7025	Adp Input/Output And	DISK DRIVE UNIT	03/10/1997	SS-8100	\$ 313.00
7025	Adp Input/Output And	DISK DRIVE UNIT	11/24/1993	SS-8100	\$ 650.00
7025	Adp Input/Output And	DISPLAY UNIT	02/23/1988	SS-8110	\$ 1,000.00
7025	Adp Input/Output And	DISPLAY UNIT	02/23/1988	SS-8110	\$ 1,000.00
7025	Adp Input/Output And	DISPLAY UNIT	02/23/1988	SS-8110	\$ 1,000.00
7025	Adp Input/Output And	PRINTER, ADP	07/28/1987	SS-8110	\$ 332.00
7025	Adp Input/Output And	DISK DRIVE UNIT	07/28/1987	SS-8110	\$ 931.00
7025	Adp Input/Output And	CONTROL UNIT, DATA ACQUISITION	01/12/1988	SS-8110	\$ 1,564.00

7025	Adp Input/Output And	DISK DRIVE UNIT	02/01/1988	SS-8110	\$ 931.00
7025	Adp Input/Output And	PRINTER, ADP	02/01/1988	SS-8110	\$ 332.00
7025	Adp Input/Output And	PRINTER, ADP	04/15/1986	SS-8110	\$ 332.00
7025	Adp Input/Output And	PRINTER, ADP	04/29/1985	SS-8110	\$ 332.00
7025	Adp Input/Output And	DISK DRIVE UNIT	06/05/1985	SS-8110	\$ 851.00
7025	Adp Input/Output And	PLOTTER, GRAPHICS	07/18/1990	SS-8110	\$ 3,752.00
7025	Adp Input/Output And	PRINTER, ADP	04/02/1991	SS-8110	\$ 425.00
7025	Adp Input/Output And	PRINTER, ADP	04/16/1991	SS-8110	\$ 1,450.00
7025	Adp Input/Output And	PRINTER, ADP	04/19/1991	SS-8100	\$ 1,445.00
7025	Adp Input/Output And	DISPLAY UNIT	09/19/1991	SS-8110	\$ 445.00
7025	Adp Input/Output And	DISPLAY UNIT	09/19/1991	SS-8110	\$ 445.00
7025	Adp Input/Output And	PRINTER, ADP	05/20/1992	SS-8110	\$ 440.00
7025	Adp Input/Output And	PRINTER, ADP	05/20/1992	SS-8110	\$ 440.00
7025	Adp Input/Output And	PRINTER, ADP	05/20/1992	SS-8110	\$ 440.00
7025	Adp Input/Output And	PRINTER, ADP	05/20/1992	SS-8110	\$ 440.00
7025	Adp Input/Output And	DISK DRIVE UNIT	08/13/1992	SS-8110	\$ 1,249.00
7025	Adp Input/Output And	DISPLAY UNIT	08/19/1992	SS-8110	\$ 500.00
7025	Adp Input/Output And	PRINTER, ADP	04/21/1993	SS-8110	\$ 495.00
7025	Adp Input/Output And	CONTROL UNIT, DATA ACQUISITION	06/16/1993	SS-8110	\$ 3,429.00
7025	Adp Input/Output And	CONTROL UNIT, DATA ACQUISITION	06/16/1993	SS-8110	\$ 3,429.00
7025	Adp Input/Output And	PRINTER, ADP	07/01/1993	SS-8110	\$ 1,500.00
7025	Adp Input/Output And	DISPLAY UNIT	07/01/1993	SS-8110	\$ 1,834.00
7025	Adp Input/Output And	PRINTER, ADP	09/08/1993	SS-8110	\$ 495.00
7025	Adp Input/Output And	DISPLAY UNIT	04/11/1994	SS-8110	\$ 400.00
7025	Adp Input/Output And	INTERFACE UNIT	04/05/1995	SS-8110	\$ 1,500.00
7025	Adp Input/Output And	DISPLAY UNIT	04/05/1995	SS-8110	\$ 300.00
7025	Adp Input/Output And	DISPLAY UNIT	09/14/1995	SS-8100	\$ 3,136.00
7025	Adp Input/Output And	PRINTER, ADP	07/18/1996	SS-8110	\$ 1,897.00
7025	Adp Input/Output And	DISPLAY UNIT	09/10/1996	SS-8100	\$ 1,799.00

7025	Adp Input/Output And	PRINTER, ADP	09/25/1996	SS-8110	\$ 1,708.00
7025	Adp Input/Output And	PRINTER, ADP	10/04/1996	SS-8100	\$ 3,750.00
7025	Adp Input/Output And	DISPLAY UNIT	01/09/1997	SS-8110	\$ 500.00
7025	Adp Input/Output And	DISPLAY UNIT	02/04/1997	SS-8110	\$ 369.00
7025	Adp Input/Output And	DISPLAY UNIT	02/09/2005	SS-8100	\$ 429.00
7025	Adp Input/Output And	DISPLAY UNIT	04/15/2005	SS-1100	\$ 324.00
7025	Adp Input/Output And	DISPLAY UNIT	05/26/2005	SS-8100	\$ 330.00
7025	Adp Input/Output And	DISPLAY UNIT	05/26/2005	SS-8100	\$ 479.00
7025	Adp Input/Output And	DISPLAY UNIT	11/16/2006	SS-8100	\$ 169.00
7025	Adp Input/Output And	DISPLAY UNIT	05/29/1997	SS-8110	\$ 719.00
7025	Adp Input/Output And	DISPLAY UNIT	07/16/1997	SS-8110	\$ 440.00
7025	Adp Input/Output And	DISPLAY UNIT	04/15/1998	SS-8100	\$ 900.00
7025	Adp Input/Output And	DISPLAY UNIT	09/16/1997	SS-8110	\$ 440.00
7025	Adp Input/Output And	DISPLAY UNIT	05/05/1998	SS-8110	\$ 500.00
7025	Adp Input/Output And	PRINTER, ADP	05/07/1998	SS-8100	\$ 3,274.00
7025	Adp Input/Output And	DISPLAY UNIT	07/01/1998	SS-8100	\$ 500.00
7025	Adp Input/Output And	PRINTER, ADP	09/11/1998	SS-8100	\$ 2,000.00
7025	Adp Input/Output And	PRINTER, ADP	10/02/1998	SS-8100	\$ 1,000.00
7025	Adp Input/Output And	PRINTER, ADP	04/08/1999	SS-8110	\$ 500.00
7025	Adp Input/Output And	PRINTER, ADP	05/13/1999	SS-8100	\$ 300.00
7025	Adp Input/Output And	PRINTER, ADP	11/05/1999	SS-8100	\$ 1,600.00
7025	Adp Input/Output And	DISPLAY UNIT	03/19/2001	SS-8100	\$ 500.00
7025	Adp Input/Output And	DISPLAY UNIT	07/18/2002	SS-8100	\$ 600.00
7025	Adp Input/Output And	DISPLAY UNIT	02/20/2004	SS-8100	\$ 100.00
7025	Adp Input/Output And	DISPLAY UNIT	02/20/2004	SS-8100	\$ 100.00
7025	Adp Input/Output And	PRINTER, ADP	09/28/2004	SS-8100	\$ 80.00
7025	Adp Input/Output And	DISPLAY UNIT	09/28/2004	SS-8100	\$ 155.00
7025	Adp Input/Output And	PRINTER, ADP	12/07/2004	SS-8100	\$ 80.00
7025	Adp Input/Output And	DISPLAY UNIT	01/19/2005	SS-8110	\$ 429.00

7025	Adp Input/Output And	SERVER	01/19/2005	SS-8110	\$ 5,204.00
7025	Adp Input/Output And	DISPLAY UNIT	04/04/2005	SS-8100	\$ 679.00
7025	Adp Input/Output And	PRINTER, ADP	04/04/2005	SS-8100	\$ 1,144.00
7025	Adp Input/Output And	DISPLAY UNIT	05/16/2005	SS-8110	\$ 155.00
7025	Adp Input/Output And	PRINTER, ADP	06/23/2005	SS-8110	\$ 631.00
7025	Adp Input/Output And	PRINTER, ADP	06/23/2005	SS-8110	\$ 631.00
7025	Adp Input/Output And	PRINTER, ADP	11/16/2006	SS-8100	\$ 549.00
7025	Adp Input/Output And	PRINTER, ADP	03/29/2007	SS-8100	\$ 115.00
7025	Adp Input/Output And	DISPLAY UNIT	03/29/2007	SS-8100	\$ 214.00
7025	Adp Input/Output And	DISPLAY UNIT	08/30/2007	SS-8100	\$ 170.00
7025	Adp Input/Output And	PRINTER, ADP	08/30/2007	SS-8100	\$ 669.00
7025	Adp Input/Output And	DISPLAY UNIT	09/13/2007	SS-8100	\$ 485.00
7025	Adp Input/Output And	SERVER	10/26/2007	SS-1100	\$ 9,295.00
7025	Adp Input/Output And	DISPLAY UNIT	12/03/2007	SS-8100	\$ 215.00
7025	Adp Input/Output And	DISPLAY UNIT	12/03/2007	SS-8100	\$ 215.00
7025	Adp Input/Output And	DISPLAY UNIT	12/03/2007	SS-8100	\$ 215.00
7025	Adp Input/Output And	DISPLAY UNIT	12/03/2007	SS-8100	\$ 215.00
7025	Adp Input/Output And	DISPLAY UNIT	09/29/2008	SS-8100	\$ 279.00
7025	Adp Input/Output And	PRINTER, ADP	09/29/2008	SS-8100	\$ 1,056.00
7025	Adp Input/Output And	PRINTER, ADP	05/22/1989	SS-8110	\$ 332.00
7025	Adp Input/Output And	PRINTER, ADP	05/22/1989	SS-8110	\$ 332.00
7025	Adp Input/Output And	PRINTER, ADP	05/22/1989	SS-8110	\$ 332.00
7025	Adp Input/Output And	DISK DRIVE UNIT	05/22/1989	SS-8110	\$ 982.00
7430	Typewriters And Offi	TYPEWRITER, WHEELWRITER 6	03/05/1987	SS-8110	\$ 710.00
7430	Typewriters And Offi	TYPEWRITER, WHEELWRITER 35	02/24/1993	SS-8100	\$ 812.00
7430	Typewriters And Offi	TYPEWRITER, WHEELWRITER 3500	04/29/1999	SS-8100	\$ 828.00
7435	Office Information S	SCANNER, OPTICAL	08/30/2006	SS-9801	\$ 150.00
7490	Miscellaneous Office	SHREDDING MACHINE, PAPER	01/10/2005	SS-8110	\$ 445.00
7730	Phonographs, Radios	RECEIVING SET, TELEVISION	06/20/2005	SS-8110	\$ 422.00

7910	Floor Polishers And	CLEANER, VACUUM, ELECTRIC	09/22/1994	SS-8120	\$ 1,914.00
					\$ 5,705,829.00

LIST OF GOVERNMENT PROVIDED FACILITIES

Building No:	Description	Square Feet
8100	Environmental & Gas Labs	6470
8110	Calibration lab & Admin	5050
8120	Prototype Lab	1600
9800	Natural Resources	1653
9801	Natural Resources	1653
1100	Office Space (GIS)	200

LIST OF GOVERNMENT PROVIDED COMPUTER ITEMS
1 Video Jack
9 Hand Held Radios
1 Computer Server
84 Multiple Computer Systems (desktops & laptops)
9 Additional LAN Jacks
20 Phones

PERFORMANCE REQUIREMENTS SUMMARY

Laboratory Services

Performance Measures	Performance Standards	Work Requirements	Surveillance Method
Program Management / Laboratory Services	100% Laboratory Availability	Coordinate Lab Maintenance activities with NASA and other agencies.	Validated Customer Complaints and/or Inspections (PI/UPI)
Calibrations up-to-Date	Calibrations completed per NASA requirements and SSC/Industry Standards	Review Calibration status of Equipment greater than 95% calibrations up to date, Generate recall notices per NASA requirements	Validated Customer Complaints and/or Inspections (PI/UPI)

Mission Assurance Quality

Performance Measures	Performance Standards	Work Requirements	Surveillance Method
Quality	Environmental Data Requirements (DRs) Accurate and Ontime	Maintain documentation. Submit verification letter. Submit accurate on time DR deliverables, EN01, 02, 03, 04, 06	Record Review and/or Inspection (PI/UPI)
Quality	Maintain AS 9100/ISO9001/14001 Compliance	Correct Findings within the established timeline.	Record Review and/or Inspection (PI/UPI)
Program Management / Laboratory Services	Meet NASA Env. Wastewater, Potable water and reg. Requirements.	Maintain and support the Integrated Natural Resource Management Plan (INRAMP).	Record Review and/or Inspection (PI/UPI)
Program Management / Laboratory Services	MS Dept of Health Cert. (EN05)	Greater Than 90% Certification of Analyte list Submit EN05.	Record Review and/or Inspection (PI/UPI)
Training and Certifications	Train and Certify in a timely manner.	Keep Certifications and Training Current.	Record Review and/or Inspection (PI/UPI)
Mission Assurance/Quality Plans and Reports	Conform to DRs; Accurate and on Time.	All DRs must be submitted on time.	Record Review and/or Inspection (PI/UPI)

ATTACHMENT 4

Deficiency Reporting and Corrective Action Reporting	D&CRs and CARs addressed and preventive action implemented.	Meet all required completion dates on D&CRs and CARs.	Record Review and/or Inspection (PI/UPI)
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Safety and Industrial Hygiene

Performance Measures	Performance Standards	Work Requirements	Surveillance Method
Safety, IH Plans, Reports and Submittals	DRs, Plans, and Reports submitted on time and accurately. Maintain IRIS, respond to close calls	All submittals on time and accurate. No Late DRs.	Record Review
Occurrences Mishaps	No Class "A" or "B" Mishaps	<u>Investigate and report all mishaps in accordance with NPR 8621.1 and SPR 8715.1.</u>	Record Review and/or Inspection (PI/UPI)
Regulation compliance to Federal, State and local Safety and IH	Effective audit system to identify and correct non-compliance. Injury Prevention	Perform audits, inspections, surveillance and reviews to ensure compliance. Input to IRIS	Record Review and/or Inspection (PI/UPI)
Regulation compliance to Federal, State and local Safety and IH	Maintain Volunterary Protection Plan (VPP)	Maintain A VPP Safety Program	Record Review and/or Inspection (PI/UPI)

WD 05-2302 (Rev.-7) was first posted on www.wdol.gov on 06/02/2009

REGISTER OF WAGE DETERMINATIONS UNDER | U.S. DEPARTMENT OF LABOR
THE SERVICE CONTRACT ACT | EMPLOYMENT STANDARDS
ADMINISTRATION

By direction of the Secretary of Labor | WAGE AND HOUR DIVISION
WASHINGTON D.C. 20210

| Wage Determination No.: 2005-2302

Shirley F. Ebbesen | Division of | Revision No.: 7
Director | Wage Determinations | Date Of Revision: 05/26/2009

State: Mississippi

Area: Mississippi Counties of George, Hancock, Harrison, Jackson, Pearl River,
Stone

Fringe Benefits Required Follow the Occupational Listing

OCCUPATION CODE - TITLE	FOOTNOTE	RATE
01000 - Administrative Support And Clerical Occupations		
01011 - Accounting Clerk I	11.56	
01012 - Accounting Clerk II	15.08	
01013 - Accounting Clerk III	16.77	
01020 - Administrative Assistant	17.46	
01040 - Court Reporter	14.26	
01051 - Data Entry Operator I	9.78	
01052 - Data Entry Operator II	10.98	
01060 - Dispatcher, Motor Vehicle	13.33	
01070 - Document Preparation Clerk	10.28	
01090 - Duplicating Machine Operator	10.28	
01111 - General Clerk I	10.16	
01112 - General Clerk II	11.08	
01113 - General Clerk III	13.67	
01120 - Housing Referral Assistant	16.05	
01141 - Messenger Courier	8.90	
01191 - Order Clerk I	10.99	
01192 - Order Clerk II	14.67	
01261 - Personnel Assistant (Employment) I	13.36	
01262 - Personnel Assistant (Employment) II	14.37	
01263 - Personnel Assistant (Employment) III	15.98	
01270 - Production Control Clerk	17.11	

01280 - Receptionist	9.97
01290 - Rental Clerk	9.76
01300 - Scheduler, Maintenance	12.02
01311 - Secretary I	12.02
01312 - Secretary II	14.26
01313 - Secretary III	16.05
01320 - Service Order Dispatcher	10.66
01410 - Supply Technician	17.46
01420 - Survey Worker	12.10
01531 - Travel Clerk I	10.96
01532 - Travel Clerk II	11.64
01533 - Travel Clerk III	12.21
01611 - Word Processor I	13.29
01612 - Word Processor II	14.92
01613 - Word Processor III	16.69
05000 - Automotive Service Occupations	
05005 - Automobile Body Repairer, Fiberglass	19.75
05010 - Automotive Electrician	14.60
05040 - Automotive Glass Installer	14.03
05070 - Automotive Worker	14.03
05110 - Mobile Equipment Servicer	12.86
05130 - Motor Equipment Metal Mechanic	15.17
05160 - Motor Equipment Metal Worker	14.03
05190 - Motor Vehicle Mechanic	16.10
05220 - Motor Vehicle Mechanic Helper	12.32
05250 - Motor Vehicle Upholstery Worker	13.45
05280 - Motor Vehicle Wrecker	14.03
05310 - Painter, Automotive	14.60
05340 - Radiator Repair Specialist	14.03
05370 - Tire Repairer	12.36
05400 - Transmission Repair Specialist	15.17
07000 - Food Preparation And Service Occupations	
07010 - Baker	11.09
07041 - Cook I	10.17
07042 - Cook II	11.09
07070 - Dishwasher	8.41
07130 - Food Service Worker	8.41
07210 - Meat Cutter	12.89
07260 - Waiter/Waitress	8.83
09000 - Furniture Maintenance And Repair Occupations	
09010 - Electrostatic Spray Painter	15.00
09040 - Furniture Handler	11.91
09080 - Furniture Refinisher	15.00
09090 - Furniture Refinisher Helper	12.67
09110 - Furniture Repairer, Minor	13.82
09130 - Upholsterer	15.00

11000 - General Services And Support Occupations	
11030 - Cleaner, Vehicles	8.41
11060 - Elevator Operator	8.41
11090 - Gardener	10.71
11122 - Housekeeping Aide	9.00
11150 - Janitor	9.42
11210 - Laborer, Grounds Maintenance	9.30
11240 - Maid or Houseman	7.94
11260 - Pruner	8.55
11270 - Tractor Operator	10.52
11330 - Trail Maintenance Worker	9.30
11360 - Window Cleaner	9.93
12000 - Health Occupations	
12010 - Ambulance Driver	13.21
12011 - Breath Alcohol Technician	14.24
12012 - Certified Occupational Therapist Assistant	16.64
12015 - Certified Physical Therapist Assistant	16.64
12020 - Dental Assistant	12.40
12025 - Dental Hygienist	22.31
12030 - EKG Technician	21.69
12035 - Electroneurodiagnostic Technologist	21.69
12040 - Emergency Medical Technician	13.21
12071 - Licensed Practical Nurse I	12.79
12072 - Licensed Practical Nurse II	14.31
12073 - Licensed Practical Nurse III	15.96
12100 - Medical Assistant	11.27
12130 - Medical Laboratory Technician	13.84
12160 - Medical Record Clerk	11.36
12190 - Medical Record Technician	12.93
12195 - Medical Transcriptionist	12.50
12210 - Nuclear Medicine Technologist	30.24
12221 - Nursing Assistant I	9.31
12222 - Nursing Assistant II	9.89
12223 - Nursing Assistant III	11.70
12224 - Nursing Assistant IV	13.13
12235 - Optical Dispenser	14.24
12236 - Optical Technician	11.65
12250 - Pharmacy Technician	12.42
12280 - Phlebotomist	12.98
12305 - Radiologic Technologist	20.95
12311 - Registered Nurse I	20.26
12312 - Registered Nurse II	24.77
12313 - Registered Nurse II, Specialist	24.77
12314 - Registered Nurse III	28.32
12315 - Registered Nurse III, Anesthetist	29.98
12316 - Registered Nurse IV	35.94

12317 - Scheduler (Drug and Alcohol Testing)		17.73
13000 - Information And Arts Occupations		
13011 - Exhibits Specialist I		16.72
13012 - Exhibits Specialist II		20.71
13013 - Exhibits Specialist III		25.61
13041 - Illustrator I		16.72
13042 - Illustrator II		20.71
13043 - Illustrator III		25.61
13047 - Librarian		22.94
13050 - Library Aide/Clerk		8.88
13054 - Library Information Technology Systems Administrator		20.71
13058 - Library Technician		11.62
13061 - Media Specialist I		14.80
13062 - Media Specialist II		16.72
13063 - Media Specialist III		18.64
13071 - Photographer I		12.43
13072 - Photographer II		14.04
13073 - Photographer III		17.23
13074 - Photographer IV		21.74
13075 - Photographer V		25.50
13110 - Video Teleconference Technician		14.62
14000 - Information Technology Occupations		
14041 - Computer Operator I		13.84
14042 - Computer Operator II		15.68
14043 - Computer Operator III		18.30
14044 - Computer Operator IV		19.47
14045 - Computer Operator V		21.50
14071 - Computer Programmer I	(see 1)	18.57
14072 - Computer Programmer II	(see 1)	23.00
14073 - Computer Programmer III	(see 1)	
14074 - Computer Programmer IV	(see 1)	
14101 - Computer Systems Analyst I	(see 1)	26.67
14102 - Computer Systems Analyst II	(see 1)	
14103 - Computer Systems Analyst III	(see 1)	
14150 - Peripheral Equipment Operator		13.84
14160 - Personal Computer Support Technician		19.47
15000 - Instructional Occupations		
15010 - Aircrew Training Devices Instructor (Non-Rated)		26.67
15020 - Aircrew Training Devices Instructor (Rated)		30.93
15030 - Air Crew Training Devices Instructor (Pilot)		36.49
15050 - Computer Based Training Specialist / Instructor		26.67
15060 - Educational Technologist		28.28
15070 - Flight Instructor (Pilot)		36.49
15080 - Graphic Artist		19.07
15090 - Technical Instructor		18.41

15095 - Technical Instructor/Course Developer	22.52
15110 - Test Proctor	14.86
15120 - Tutor	14.86
16000 - Laundry, Dry-Cleaning, Pressing And Related Occupations	
16010 - Assembler	8.44
16030 - Counter Attendant	8.44
16040 - Dry Cleaner	9.76
16070 - Finisher, Flatwork, Machine	8.44
16090 - Presser, Hand	8.44
16110 - Presser, Machine, Drycleaning	8.44
16130 - Presser, Machine, Shirts	8.44
16160 - Presser, Machine, Wearing Apparel, Laundry	8.44
16190 - Sewing Machine Operator	10.36
16220 - Tailor	10.96
16250 - Washer, Machine	8.81
19000 - Machine Tool Operation And Repair Occupations	
19010 - Machine-Tool Operator (Tool Room)	17.49
19040 - Tool And Die Maker	19.77
21000 - Materials Handling And Packing Occupations	
21020 - Forklift Operator	12.81
21030 - Material Coordinator	17.11
21040 - Material Expediter	17.11
21050 - Material Handling Laborer	10.38
21071 - Order Filler	10.73
21080 - Production Line Worker (Food Processing)	12.81
21110 - Shipping Packer	12.34
21130 - Shipping/Receiving Clerk	12.34
21140 - Store Worker I	13.17
21150 - Stock Clerk	15.52
21210 - Tools And Parts Attendant	12.81
21410 - Warehouse Specialist	12.81
23000 - Mechanics And Maintenance And Repair Occupations	
23010 - Aerospace Structural Welder	22.80
23021 - Aircraft Mechanic I	21.70
23022 - Aircraft Mechanic II	22.80
23023 - Aircraft Mechanic III	23.93
23040 - Aircraft Mechanic Helper	17.63
23050 - Aircraft, Painter	20.55
23060 - Aircraft Servicer	19.25
23080 - Aircraft Worker	20.09
23110 - Appliance Mechanic	17.49
23120 - Bicycle Repairer	12.36
23125 - Cable Splicer	22.28
23130 - Carpenter, Maintenance	15.40
23140 - Carpet Layer	14.60
23160 - Electrician, Maintenance	18.63

23181 - Electronics Technician Maintenance I	20.63
23182 - Electronics Technician Maintenance II	21.40
23183 - Electronics Technician Maintenance III	22.14
23260 - Fabric Worker	16.19
23290 - Fire Alarm System Mechanic	19.33
23310 - Fire Extinguisher Repairer	15.52
23311 - Fuel Distribution System Mechanic	18.10
23312 - Fuel Distribution System Operator	15.52
23370 - General Maintenance Worker	13.96
23380 - Ground Support Equipment Mechanic	21.70
23381 - Ground Support Equipment Servicer	19.25
23382 - Ground Support Equipment Worker	20.09
23391 - Gunsmith I	15.52
23392 - Gunsmith II	16.86
23393 - Gunsmith III	18.10
23410 - Heating, Ventilation And Air-Conditioning Mechanic	15.84
23411 - Heating, Ventilation And Air Contditioning Mechanic (Research Facility)	16.05
23430 - Heavy Equipment Mechanic	17.47
23440 - Heavy Equipment Operator	15.09
23460 - Instrument Mechanic	18.10
23465 - Laboratory/Shelter Mechanic	17.49
23470 - Laborer	10.38
23510 - Locksmith	16.05
23530 - Machinery Maintenance Mechanic	19.11
23550 - Machinist, Maintenance	17.57
23580 - Maintenance Trades Helper	13.84
23591 - Metrology Technician I	18.10
23592 - Metrology Technician II	18.72
23593 - Metrology Technician III	19.26
23640 - Millwright	19.82
23710 - Office Appliance Repairer	16.13
23760 - Painter, Maintenance	14.52
23790 - Pipefitter, Maintenance	18.47
23810 - Plumber, Maintenance	17.40
23820 - Pneudraulic Systems Mechanic	18.10
23850 - Rigger	18.10
23870 - Scale Mechanic	16.86
23890 - Sheet-Metal Worker, Maintenance	16.61
23910 - Small Engine Mechanic	13.96
23931 - Telecommunications Mechanic I	20.00
23932 - Telecommunications Mechanic II	23.08
23950 - Telephone Lineman	18.82
23960 - Welder, Combination, Maintenance	17.57
23965 - Well Driller	18.10

23970 - Woodcraft Worker	18.10
23980 - Woodworker	15.52
24000 - Personal Needs Occupations	
24570 - Child Care Attendant	7.52
24580 - Child Care Center Clerk	9.95
24610 - Chore Aide	9.10
24620 - Family Readiness And Support Services Coordinator	13.07
24630 - Homemaker	11.08
25000 - Plant And System Operations Occupations	
25010 - Boiler Tender	18.70
25040 - Sewage Plant Operator	14.66
25070 - Stationary Engineer	18.70
25190 - Ventilation Equipment Tender	14.64
25210 - Water Treatment Plant Operator	14.52
27000 - Protective Service Occupations	
27004 - Alarm Monitor	12.35
27007 - Baggage Inspector	9.48
27008 - Corrections Officer	11.96
27010 - Court Security Officer	14.16
27030 - Detection Dog Handler	14.52
27040 - Detention Officer	12.79
27070 - Firefighter	15.82
27101 - Guard I	9.48
27102 - Guard II	13.98
27131 - Police Officer I	14.75
27132 - Police Officer II	16.36
28000 - Recreation Occupations	
28041 - Carnival Equipment Operator	10.73
28042 - Carnival Equipment Repairer	12.29
28043 - Carnival Equipment Worker	9.25
28210 - Gate Attendant/Gate Tender	12.73
28310 - Lifeguard	11.34
28350 - Park Attendant (Aide)	14.24
28510 - Recreation Aide/Health Facility Attendant	10.39
28515 - Recreation Specialist	16.21
28630 - Sports Official	11.34
28690 - Swimming Pool Operator	16.25
29000 - Stevedoring/Longshoremen Occupational Services	
29010 - Blocker And Bracer	16.99
29020 - Hatch Tender	16.37
29030 - Line Handler	16.37
29041 - Stevedore I	16.28
29042 - Stevedore II	17.65
30000 - Technical Occupations	
30010 - Air Traffic Control Specialist, Center (HFO) (see 2)	33.96

30011 - Air Traffic Control Specialist, Station (HFO) (see 2)	23.42
30012 - Air Traffic Control Specialist, Terminal (HFO) (see 2)	25.79
30021 - Archeological Technician I	16.28
30022 - Archeological Technician II	18.25
30023 - Archeological Technician III	22.56
30030 - Cartographic Technician	24.35
30040 - Civil Engineering Technician	16.69
30061 - Drafter/CAD Operator I	16.94
30062 - Drafter/CAD Operator II	20.60
30063 - Drafter/CAD Operator III	21.32
30064 - Drafter/CAD Operator IV	26.24
30081 - Engineering Technician I	14.77
30082 - Engineering Technician II	16.58
30083 - Engineering Technician III	18.58
30084 - Engineering Technician IV	22.98
30085 - Engineering Technician V	28.80
30086 - Engineering Technician VI	34.01
30090 - Environmental Technician	23.70
30210 - Laboratory Technician	18.70
30240 - Mathematical Technician	22.84
30361 - Paralegal/Legal Assistant I	15.10
30362 - Paralegal/Legal Assistant II	18.71
30363 - Paralegal/Legal Assistant III	22.89
30364 - Paralegal/Legal Assistant IV	27.69
30390 - Photo-Optics Technician	22.84
30461 - Technical Writer I	22.28
30462 - Technical Writer II	27.26
30463 - Technical Writer III	32.98
30491 - Unexploded Ordnance (UXO) Technician I	21.58
30492 - Unexploded Ordnance (UXO) Technician II	26.11
30493 - Unexploded Ordnance (UXO) Technician III	31.30
30494 - Unexploded (UXO) Safety Escort	21.58
30495 - Unexploded (UXO) Sweep Personnel	21.58
30620 - Weather Observer, Combined Upper Air Or (see 2)	20.56
Surface Programs	
30621 - Weather Observer, Senior (see 2)	22.84
31000 - Transportation/Mobile Equipment Operation Occupations	
31020 - Bus Aide	8.72
31030 - Bus Driver	13.56
31043 - Driver Courier	10.74
31260 - Parking and Lot Attendant	7.47
31290 - Shuttle Bus Driver	11.24
31310 - Taxi Driver	9.99
31361 - Truckdriver, Light	11.24
31362 - Truckdriver, Medium	15.35
31363 - Truckdriver, Heavy	15.21

31364 - Truckdriver, Tractor-Trailer	15.21
99000 - Miscellaneous Occupations	
99030 - Cashier	7.57
99050 - Desk Clerk	9.14
99095 - Embalmer	21.58
99251 - Laboratory Animal Caretaker I	11.21
99252 - Laboratory Animal Caretaker II	11.53
99310 - Mortician	21.58
99410 - Pest Controller	12.79
99510 - Photofinishing Worker	11.34
99710 - Recycling Laborer	14.77
99711 - Recycling Specialist	16.34
99730 - Refuse Collector	13.46
99810 - Sales Clerk	11.00
99820 - School Crossing Guard	13.99
99830 - Survey Party Chief	13.63
99831 - Surveying Aide	9.02
99832 - Surveying Technician	12.38
99840 - Vending Machine Attendant	12.35
99841 - Vending Machine Repairer	14.04
99842 - Vending Machine Repairer Helper	12.35

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: Life, accident, and health insurance plans, sick leave, pension plans, civic and personal leave, severance pay, and savings and thrift plans. Minimum employer contributions costing an average of \$3.35 per hour computed on the basis of all hours worked by service employees employed on the contract.

VACATION: 1 week paid vacation after 1 year of service with a contractor or successor; 2 weeks after 2 years; 3 weeks after 5 years; and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year, New Year's Day, Martin Luther King Jr's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) Under the SCA at section 8(b), this wage determination does not apply to any employee who individually qualifies as a bona fide executive, administrative, or professional employee as defined in 29 C.F.R. Part 541. Because most Computer System Analysts and Computer Programmers who are compensated at a rate not less than \$27.63 (or on a salary or fee basis at a rate not less than \$455 per week) an hour would likely qualify as exempt computer professionals, (29 C.F.R. 541.400) wage rates may not be listed on this wage determination for all occupations within those job families. In addition, because this wage determination may not list a wage rate for some or all occupations within those job families if the survey data indicates that the prevailing wage rate for the occupation equals or exceeds \$27.63 per hour conformances may be necessary for certain nonexempt employees. For example, if an individual employee is nonexempt but nevertheless performs duties within the scope of one of the Computer Systems Analyst or Computer Programmer occupations for which this wage determination does not specify an SCA wage rate, then the wage rate for that employee must be conformed in accordance with the conformance procedures described in the conformance note included on this wage determination.

Additionally, because job titles vary widely and change quickly in the computer industry, job titles are not determinative of the application of the computer professional exemption. Therefore, the exemption applies only to computer employees who satisfy the compensation requirements and whose primary duty consists of:

- (1) The application of systems analysis techniques and procedures, including consulting with users, to determine hardware, software or system functional specifications;
- (2) The design, development, documentation, analysis, creation, testing or modification of computer systems or programs, including prototypes, based on and related to user or system design specifications;
- (3) The design, documentation, testing, creation or modification of computer programs related to machine operating systems; or
- (4) A combination of the aforementioned duties, the performance of which requires the same level of skills. (29 C.F.R. 541.400).

2) AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you

work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am.

If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered

overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives.

Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**** UNIFORM ALLOWANCE ****

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms

of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations", Fifth Edition, April 2006, unless otherwise indicated. Copies of the Directory are available on the Internet. A links to the Directory may be found on the WHD home page at <http://www.dol.gov/esa/whd/> or through the Wage Determinations On-Line (WDOL) Web site at <http://wdol.gov/>.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report

of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).

- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour decision to the contractor.
- 6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

Revised Attachment 6
Fully Burdened Labor Rates for
CLINs 004, 007, 010

Solicitation No. NNS09ZDA006R
Submitted January 26, 2010

(b)(4)

ATTACHMENT 7

PIV Card Issuance Procedures in accordance with FAR clause 52.204-9, Personal Identity Verification of Contractor Personnel

FIPS 201 Appendix A graphically displays the following procedure for the issuance of a PIV credential.

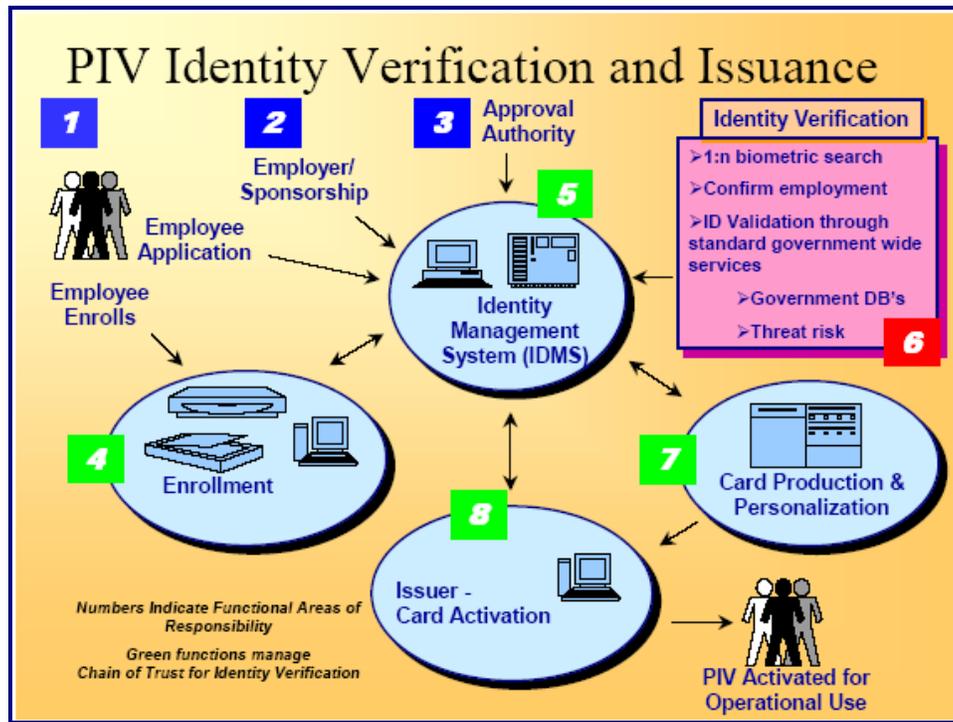


Figure A-1, FIPS 201, Appendix A

The following steps describe the procedures for the NASA Personal Identity Verification Card Issuance (PCI) of a PIV credential:

Step 1:

The Contractor's Corporate Security Officer (CSO), Program Manager (PM), or Facility Security Officer (FSO) submits a formal letter that provides a list of contract employees (applicant) names requesting access to the NASA Contracting Officer's Technical Representative (COTR). In the case of a foreign national applicant, approval through the NASA Foreign National Management System (NFNMS) must be obtained for the visit or assignment before any processing for a PIV credential can take place. Further, if the foreign national is not under a contract where a COTR has been officially designated, the foreign national will provide the information directly to their visit/assignment host, and the host sponsor will fulfill the duties of the COTR mentioned herein. In each case, the letter shall provide notification of the contract or foreign national employee's (hereafter the "applicant") full name (first, middle and last), social security number (SSN) or NASA Foreign National Management System Visitor Number if the foreign national does not have a SSN, and date of birth. If the contract employee has a current satisfactorily completed National Agency Check with Inquiries (NACI) or an equivalent or higher degree of background investigation, the letter shall indicate the type of investigation, the agency completing the investigation, and date the investigation was completed. Also, the letter must specify the risk/sensitivity level associated with the position in which each applicant will be working (NPR 1600.1, §4.5 is germane) Further, the letter shall also acknowledge that contract employees may be denied

ATTACHMENT 7

access to NASA information or information systems based on an unsatisfactory background investigation/adjudication. .

After reviewing the letter for completeness and concurring with the risk/sensitivity levels, the COTR/host must forward the letter to the Center Chief of Security (CCS). The CCS shall review the OPM databases (e.g., DCII, PIP, et al.), and take appropriate steps to validate the applicant's investigation status. Requirements for a NACI or other investigation shall be initiated only if necessary.

Applicants who do not currently possess the required level of background investigation shall be directed to the e-QIP web site to complete the necessary background investigation forms online. The CCS shall provide to the COTR/host information and instructions on how to access the e-QIP for each contract or foreign national employee requiring access

Step 2:

Upon acceptance of the letter/background information, the applicant will be advised that in order to complete the investigative process, he or she must appear in-person before the authorized PIV registrar and submit two forms of identity source documents in original form. The identity source documents must come from the list of acceptable documents included in Form I-9, Employment Eligibility Verification, one which must be a Federal¹ or State issued picture identification. Fingerprints will be taken at this time. The applicant must appear **no later than** the entry on duty date.

When the applicant appears, the registrar will electronically scan the submitted documents; any document that appears invalid will be rejected by the registrar. The registrar will capture electronically both a facial image and fingerprints of the applicant. The information submitted by the applicant will be used to create or update the applicant identity record in the Identity Management System (IDMS).

Step 3:

Upon the applicant's completion of the investigative document, the CCS reviews the information, and resolves discrepancies with the applicant as necessary. When the applicant has appeared in person and completed fingerprints, the package is electronically submitted to initiate the NACI. The CCS includes a request for feedback on the NAC portion of the NACI at the time the request is submitted.

Step 4:

Prior to authorizing physical access of a contractor employee to a federally-controlled facility or access to a Federal information system, the CCS will ensure that a check has been performed with the National Crime Information Center (NCIC) and Interstate Identification Index. In the case of a foreign national, a national check of the Bureau of Immigration and Customs Enforcement (BICE) database will be performed for each applicant. If this process yields negative information, the CCS will immediately notify the COTR/host of the determination regarding access made by the CCS.

Step 5:

Upon receipt of the completed NAC, the CCS will update IDMS from the NAC portion of the NACI and indicate the result of the suitability determination. If an unsatisfactory suitability determination is rendered, the COTR will advise the contractor that the employee is being denied physical access to all federally-controlled facilities and Federal information systems.

¹ A non-PIV government identification badge, including the NASA Photo Identification Badge, MAY NOT BE USED for the original issuance of a PIV vetted credential

ATTACHMENT 7

Based on a favorable NAC and NCIC/III or BICE check, the CCS will authorize the issuance of a PIV federal credential in the Physical Access Control System (PACS) database. The CCS, based on information provided by the COTR/host, will determine what physical access the applicant should be granted once the PIV issues the credential.

Step 6:

Using the information provided by the applicant during his or her in-person appearance, the PIV card production facility creates and instantiates the approved PIV card for the applicant with an activation date commensurate with the applicant's start date.

Step 7:

The applicant proceeds to the credential issuance facility to begin processing for receipt of his/her federal credential.

The applicant provides to the credential issuing operator proof of identity with documentation that meets the requirements of FIPS 201 (DHS Employment Eligibility Verification (Form I-9) documents. These documents **must** be the same documents submitted for registration.

The credential issuing operator will verify that the facial image, and optionally reference finger print, matches the enrollment data used to produce the card. Upon verification of identity, the operator will locate the employee's record in the PACS database, and modify the record to indicate the PIV card has been issued. The applicant will select a PIN for use with his or her new PIV card. Although root data is inaccessible to the operator, certain fields (hair color, eye color, et al.) may be modified to more accurately record the employee's information.

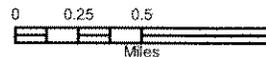
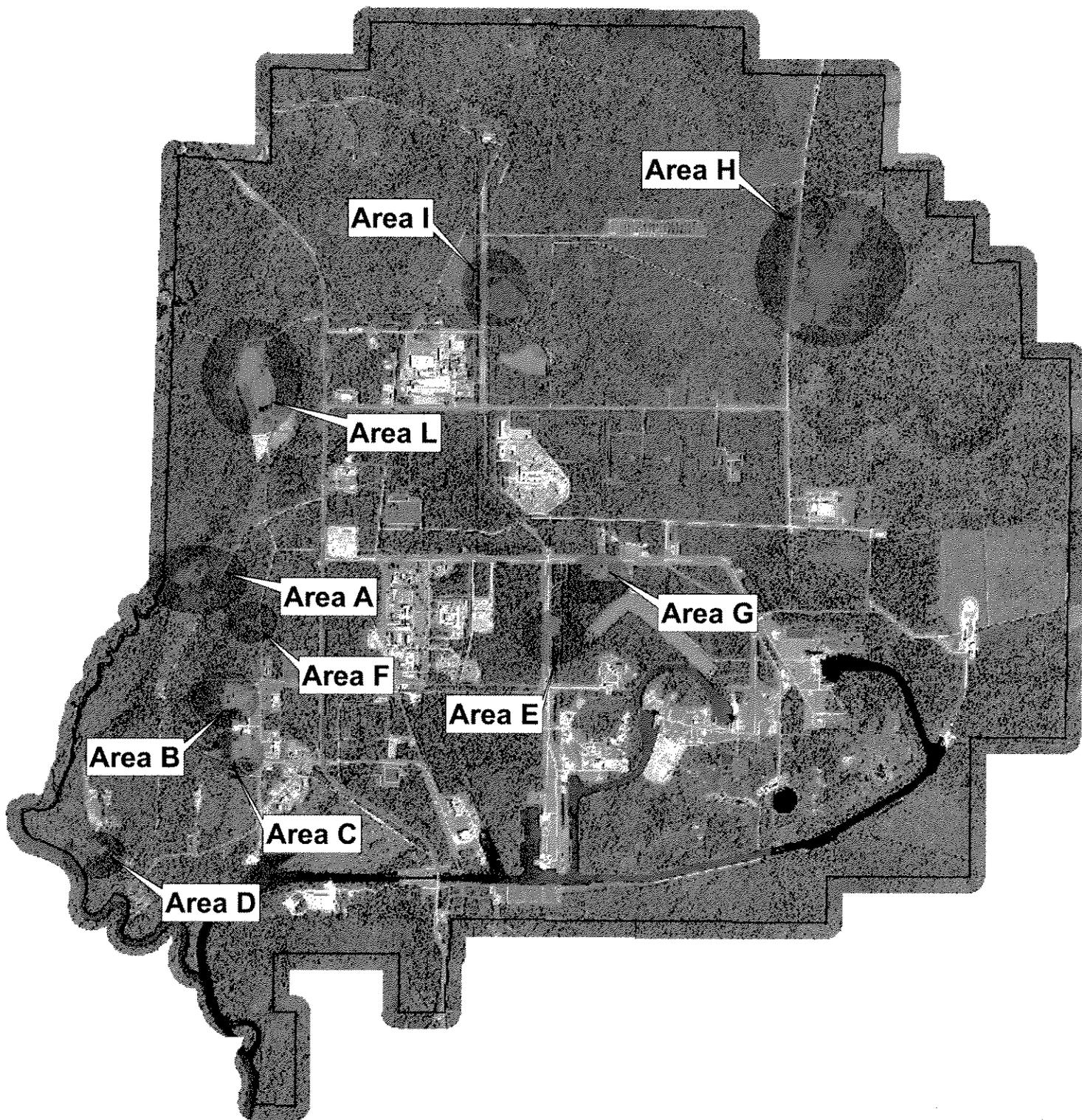
The applicant proceeds to a kiosk or other workstation to complete activation of the PIV card using the initial PIN entered at card issuance.

ATTACHMENT 7

ALTERNATIVE FOR APPLICANTS WHO DO NOT HAVE A COMPLETED AND ADJUDICATED NAC AT THE TIME OF ENTRANCE ON DUTY

Steps 1 through 4 shall be accomplished for all applicants in accordance with the process described above. If the applicant is unable to appear in person until the time of entry on duty, or does not, for any other reason, have a completed and adjudicated NAC portion of the NACI at the time of entrance on duty, the following interim procedures shall apply.

1. If the documents required to submit the NACI have not been completed prior to EOD, the applicant will be instructed to complete all remaining requirements for submission of the investigation request. This includes presentation of I-9 documents and completion of fingerprints, if not already accomplished. If the applicant fails to complete these activities as prescribed in NPR 1600.1 (Chapters 3 & 4), it may be considered as failure to meet the conditions required for physical access to a federally-controlled facility or access to a Federal information system, and result in denial of such access.
2. Based on favorable results of the NCIC, the applicant shall be issued a temporary NASA identification card for a period not-to-exceed six months. If at the end of the six month period the NAC results have not been returned, the agency will at that time make a determination if an additional extension will be granted for the temporary identification card.
3. Upon return of the completed NAC, the process will continue from Step 5.



CERCLA Sites
Stennis Space Center



Date: July 30, 2009

Path: Z:\projects\CERCLA\SSC CERCLA Sites.mxd

Authors: KAB

Notes:

Safety & Health Plan

Not releasable under Exemption 4



Organizational Conflict of Interest Avoidance Plan (OCI)

(Data Requirement DR PC03)

**A2Research
Laboratory Services Contract
NNS10AA47C**

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John C. Stennis Space Center

Stennis Space Center, MS 39529

This document is submitted in accordance with the Data Procurement Document (DPD), Data Requirements List (DRL) item PC03, Contract NNS10AA47C. The procuring agency is NASA, SSC.

Program Manager

Date

Document Change Record

Revision	Date	Description of Change
0	<i>May 01, 2010</i>	Original Document submitted - Data Requirement PC03.

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1.0 GENERAL

1.1 Introduction and Corporate Commitment

A2 Research JV (A2R), an Alcyon, Inc and Alutiiq 3SG, LLC (Alutiiq) Joint Venture, in compliance with Contract NNS10AA47C award by the National Aeronautics and Space Administration (NASA), Stennis Space Center (SSC) to provide contract support through the Laboratory Services Contract (LSC) is providing this OCI Plan in response to Data Requirement (DR) PC03. A2R finds no OCI in any performance of the statement of work for the LSC.

The multi-year LSC Contract provides “Gas, materials, and environmental laboratory analysis, professional data reduction and analysis, maintenance of measurement standards and the calibration and repair of instrumentation, and specialized technical, business, and administrative systems services and related operations required to support the Center’s mission requirements.”

The intent of this Organizational Conflict Of Interest Plan (the “Plan”) is to achieve effective and credible OCI mitigation against any existing or potential OCI or the appearance of an OCI, with a Plan that is sufficient to permit A2R to provide all services under the LSC contract without creating an OCI for itself or for other Alcyon and Alutiiq companies, including subcontractors working on the LSC contract.

Purpose of Plan

Under the FAR, an OCI is created when an organization is in a position where: there is an actual or perceived activity which renders the organization unable, or potentially unable, to render impartial assistance or advice to the U.S. DoD and other U.S. Government department and agencies (collectively, the Government); the organization’s objectivity in performing contracted work is, or might be, otherwise impaired, or; the organization has an unfair competitive advantage by virtue of access to proprietary or competitive-sensitive information. FAR Part 9.5 states that OCIs are more likely to occur in contracts involving management support services, consultant or other professional services, contractor performance of or assistance in technical evaluations, or system engineering and technical direction tasks. Further, FAR Part 9.5 requires that action be taken to avoid, neutralize, or mitigate potential OCIs.

This Plan is submitted to assure the Government the A2R has no known OCI issue at the start of the LSC, and that there is a well defined and understood plan for A2R to assure that no Stennis Work Request (SWR) will be accepted or initiated that could create an OCI.

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A2R is providing this Plan that describes exactly what we will do to neutralize or mitigate any real or perceived OCI. The goals of this Plan are to:

- a) Avoid the reality and perception of biased judgment in providing services to NASA/SSC
- b) Protect all Government and contractor proprietary and sensitive data; and
- c) Preclude any real or perceived unfair competitive advantage.

A2R management is fully committed to protecting its privileged status as a prime contractor to NASA/SSC by proactively implementing safeguards against the inappropriate flow of information or any other conduct, which is or may be perceived as an OCI. Before any A2R or other Alcyon and Alutiiq employees will be allowed access to sensitive Government information or contractor proprietary information, they will be required to familiarize themselves and comply with this Plan.

A2R has previously adopted and implemented a company-wide OCI Policy Statement, a copy of which is attached hereto as Appendix A. In addition, the A2R Code of Ethics and Business Conduct contains provisions regarding conflict of interest, and A2R's ethics training curriculum includes a segment on conflicts of interest.

1.2 DEFINITION OF TERMS

The following terms are defined as applied within this Plan:

A2 Research JV: As used in this Plan "A2R" means the Joint Venture formed by Alcyon, Inc. and Alutiiq 3SG LLC.

Alcyon, Inc: As used in this Plan "Alcyon" means Alcyon, Inc, the Majority partner in A2 Research JV.

Alutiiq 3SG, LLC: As used in this Plan "Alutiiq" means Alutiiq 3SG, LLC, the Minority Partner in A2 Research JV, and all companies owned or controlled by Alutiiq, LLC.

Non-Disclosure Agreement (NDA): Agreement identified as Appendix B to this Plan, which an employee must execute prior to his/her assignment to any activity on the LSC Contract. This agreement acknowledges in writing that the employee has read, understood, and shall abide by the conditions of this Plan.

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Organizational Conflict of Interest (OCI): An OCI exists under one or more of the following circumstances:

1. A situation in which an organization, because of other activities or relationships, is unable or potentially unable to render impartial assistance or advice to the Government;
2. A situation in which the organization's objectivity in performing the contract work is or may be otherwise impaired;
3. A situation in which the organization has an unfair competitive advantage.

Sensitive Government Information (SGI): Any programmatic, personnel, technical, or other information, held by or originating from the Government, which is related to its source selection and procurement strategies, evaluation criteria, proprietary data of third parties, and any other similar types of information, which has not and will not be made generally available to the public.

Technical Data: Recorded data, regardless of form or characteristic, of a scientific or engineering nature. It may document research, experimental, developmental, or engineering work or test data, or be usable/used to define a design process or to procure, produce, support, maintain, or operate equipment/material. The data may be graphic or text, drawings or photographs, computer printouts, or any other documentation, and will not be generally available to the public and which is or may be useful to an offeror to a solicitation.

1.3 DESCRIPTION OF THE REQUIREMENT AND THE OCI SITUATION

The OCI program specified herein is designed to establish barriers within A2R to the flow of information received under the LSC Contract that could potentially lead to improper activity or biased judgment and is designed to preclude or mitigate each of these potential concerns. As described in detail in Section 2, the OCI program applies several layers of control in order to achieve effective and credible protection:

Organizational Separation – The A2R management and staff for the LSC Contract reside in a distinct organization separate from other Alcyon and Alutiiq operations.

Physical/Performance Separation and Protection – Workspace for the performance of the LSC Contract tasks is physically separate from workspace for other Alcyon and Alutiiq staff and contracts. This separation is controlled and monitored.

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Data Separation and Protection – A2R has established information-handling procedures to ensure that any SGI and technical data is not accessible to anyone not assigned to the performance of the LSC Contract.

Senior Corporate Management and Government Reviews – A2R is committed to periodic corporate audits of the Plan implementation and reviews by the LSC CO as required.

2.0 DETAILED OCI PLAN AND PROCEDURES

2.1 Purpose

The purpose of this Plan is to establish policies and procedures for A2R’s adherence to ensure OCI avoidance and mitigation on the LSC Contract.

2.2 Scope

This Plan is applicable to all employees who provide direct support to the Performance Work Statement (PWS) or contractually required activities under the LSC Contract. The Plan shall not generally be applicable to administrative support personnel (e.g. Human Resources, Security, and Finance) whose role on the LSC Contract is limited to activities that do not ordinarily involve access to SGI or Technical Data. However, each member of the A2R team shall determine whether individual administrative support personnel perform a role that requires such access, thereby rendering the Plan applicable to those individuals. This Plan includes the following:

2.2.1 Organizational Separation

The LSC Contract personnel and other Alcyon and Alutiq personnel shall each reside in separate organizations, reporting to different senior-level managers.

2.2.2 Physical/Performance Separation

All work that requires access to SGI shall be performed at the LSC Program facility or other customer authorized facility, which is segregated from other A2R workspace.

2.2.3 Data Separation and Protection

All personnel assigned to the LSC Contract shall read this Plan in its entirety prior to commencing participation in LSC Contract activities, and shall execute the attached NDA indicating his/her acceptance of its contents. Only those A2R employees, independent consultants, and/or subcontractors who have executed an NDA shall be authorized access to Sensitive Government Information (SGI).

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The A2R Program Manager (PM) for the LSC Contract shall generate and maintain the personnel access list indicating those personnel authorized for SGI access. This list shall be available to all contract personnel and shall be provided to the LSC CO. Prior to the exchange of SGI, the transmitting individual shall verify that the receiving individual has the proper authorization for the information. No SGI shall be transmitted in either hardcopy or softcopy outside the LSC Contract workspace located at A2R workspaces in NASA/SSC facilities without the prior approval of the A2R PM and the Government CO or Government COTR. Any discussion of this data with anyone outside the LSC Contract personnel access list, outside the Government, or without prior authorization from the Government is specifically prohibited.

2.2.4 OCI Training and Awareness Briefings

Formal OCI training shall be given to all A2R personnel performing SGI activities on the LSC contract within 30 days of signing the NDA. The A2R Program Manager shall have responsibility for identifying the affected A2R personnel. Refresher training will be given annually to all existing employees. Periodic awareness briefings shall be given as required. Personnel leaving the LSC Contract after having engaged in SGI activities shall receive a briefing reminding them of the OCI responsibilities and restrictions that will follow them and shall sign their original NDA a second time to indicate receipt of this departure briefing. All training records and NDA's will be made available to the Government upon request.

2.3 Discipline for Noncompliance

The failure of any employee to comply with the requirements and procedures stated herein shall result in a penalty up to and including termination.

2.4 Corporate and Government Reviews

A2R senior management shall conduct an annual audit to assure that all procedures required herein are being executed properly. The results of the audit shall form the basis for an annual certification to the Government COTR that AR2 is in continuing compliance with the terms of this Plan. All audit records will be made available to the Government upon request.

3.0 RESPONSIBILITIES

The responsibilities for administering the requirements stated in this Plan are allocated as follows:

- The A2R PM for the LSC Contract is responsible for implementing the OCI procedures defined in this Plan and ensuring that the

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established procedures are properly performed. The A2R PM shall report all OCI and Plan violations to his/her manager, the General Counsel for both Alycon and Alutiiq, the LSC CO and COTR. Appropriate corrective actions shall be selected and implemented when violations occur. A2R shall maintain a record of all personnel with SGI access and of attendance at all training and awareness briefings. The A2R PM shall be the POC for all OCI correspondence with the LSC CO and COTR, to include reports of OCI violations and corrective actions, unless such violation or corrective action personally involves the A2R PM. In such a case, the POC for A2R shall be the Alutiiq General Counsel. Should a potential or actual OCI be discovered a report will be made to the CO and COTR. Such report will include a description of the potential/actual conflict; the plan for avoiding, neutralizing, or mitigating the conflict; and the benefits and/or risks versus contract performance associated with proposed plan approval. Upon approval by the Government, any required specific resolution strategies shall be appended to the plan.

- A2R shall provide OCI training and awareness briefings as required by this Plan to all affected staff.
- All employees engaged in SGI activities shall attend OCI training sessions and periodic awareness briefings, shall execute all the procedures of this Plan to the best of their ability, and shall report suspected violations of this Plan to the A2R PM. Each affected employee is required to read the Plan and sign the NDA provided in Appendix B. A list of employees who have signed the NDA will be maintained and made available to SSC upon request.
- A2R shall assign a representative who shall be the focal point for all OCI matters within the company. The OCI focal point shall monitor the activities of the contracts to ensure that the A2R commitment to OCI preclusion and mitigation is being honored. To this end, he/she shall conduct an annual inspection and audit of OCI procedures to ensure such procedures are being properly executed. The A2R Executive Director (or his/her designee) shall certify annually to the LSC CO with regard to the implementation of and compliance with this Plan.

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APPENDIX A: ORGANIZATIONAL CONFLICT OF INTEREST (OCI) POLICY STATEMENT

I. General Policy

An OCI may arise when the nature of the work to be performed on a contract potentially may result in an improper advantage for A2R on that contract or on a future contract. It is A2R's policy to avoid, neutralize, or mitigate all significant OCI involving both JV partner companies, their divisions, subsidiaries and affiliated companies.

II. Implementation

A2R shall assign a representative who shall be the focal point for all OCI matters within the JV (the "OCI corporate representative"). At a minimum, A2R should attempt to limit the scope of an OCI provision so that it affects the JV only. In the event this cannot be accomplished, the JV must provide to its PM, at least thirty (30) calendar days, or, as soon as the solicitation is received (if less than 30 days), prior to any planned notice to the Government of acceptance of the OCI provision, an information sheet containing, at a minimum, the following information:

1. A brief summary of the statement of work for the contract and the supplies and/or services to be delivered;
2. A copy of any OCI provisions proposed by the Government; and
3. Any proposed means to mitigate the impact of the OCI clause.

The PM shall be responsible for distributing the above information (the "information sheet") to other affected managers within A2R. A copy of the information sheet shall be also furnished concurrently to the OCI corporate representative who shall be responsible for overseeing the OCI coordination process. If Alcyon or Alutiiq desires to solicit input on any proposed OCI provision, it shall be responsible for developing a procedure for distributing OCI provisions for review and comment.

A manager receiving an OCI information sheet must respond, in writing, not later than seven (7) calendar days after receipt of the OCI package and follow the protocol below:

1. If there are no objections to acceptance of the OCI provision, the manager shall send a written response so indicating to the PM and the OCI corporate representative.
2. If the manager has an objection to an OCI provision, he or she shall review the objection with the cognizant PM, and the two shall attempt

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to resolve the objections. If the Managers are able to reach an agreement, they shall notify the OCI corporate representative, in writing, of the resolution of the conflict. If the Managers are unable to resolve the conflict, each shall provide, in writing, its position with regard to the conflict, along with a copy of all correspondence regarding the conflict, to the OCI corporate representative. The OCI corporate representative shall have final authority to adjudicate the conflict and made changes to the OCI provision.

3. When the PM has received a “no objections” response from each affected manager, or has otherwise concluded there are no unresolved objections to the OCI provision, the PM, with a copy to the OCI corporate representative, shall issue a “no objections” memorandum stating that there are no objections to the OCI provision, or that all objections have been successfully resolved, to those persons desiring to accept the OCI provision.
4. If no response is received during the seven (7) calendar day period, the PM requesting the OCI clearance must contact the managers from whom a response has not been received. Unless an affirmative objection to the OCI clause is provided, the requesting PM may provide approval to proceed with the OCI clause.
5. No OCI provision shall be accepted until the “no objections” memorandum has been received, or all objections to the OCI provision have been successfully resolved.

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APPENDIX B: NON-DISCLOSURE AGREEMENT

EMPLOYEE NONDISCLOSURE AGREEMENT

In consideration of and as a condition to employment by A² Research JV ("A2R"), this Confidentiality Agreement is entered into between A2R and _____ ("Employee").

1. The parties recognize that employment by A2R may expose Employee to confidential information which must be retained as confidential and not used improperly by Employee or disclosed to third parties. Employee acknowledges that s/he has reviewed and understands policies 106 and 107 of the A2R, LLC Employee Handbook and, employee hereby agrees to and accepts the restrictions imposed therein as part of the employment relationship.

2. During and after the term of employment with A2R, Employee shall not, absent the prior express consent of A2R, either use outside of her/his work at A2R or disclose to any other person or entity any confidential or proprietary information as described herein, except as may otherwise be required by law. Confidential or proprietary information to which this agreement is applicable includes, but is not limited to: information originated by or otherwise peculiarly within the knowledge of A2R, information currently protected by A2R against unrestricted disclosure to others, product and roadmap information, marketing plans, financial/pricing information, tax information, customer and vendor related data and information, employee information, services/support and other business information including, but not limited to software, strategies, plans, techniques, drawings, designs, specifications, technical or know-how data, research and development, ideas, inventions, patent disclosures that may be disclosed between the parties whether in written, oral, electronic, website-based, or other form, which Employee uses, prepares, acquires or comes in contact with as a result of employment at A2R. On conclusion of the employment relationship, Employee agrees to return to A2R any documentary materials in whatever form, including but not limited to documents, files, computer disks and the like, relating to the foregoing information, and agrees to maintain the confidences acquired through access to such information unless A2R shall agree in writing to future disclosure.

3. Employee certifies as follows:

(i) I will not divulge to A2R or any A2R employee, representative or agent, or parent or subsidiary, or use in my employment at A2R, any

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proprietary or confidential information (as defined above) or trade secrets of any other person or entity, including but not limited to past or present employers.

(ii) I have taken no proprietary or confidential information or trade secrets from any person or entity, including but not limited to past or present employers.

Employee further acknowledges and agrees that A2R is offering employment to Employee relying on the above certifications, and if A2R later determines in good faith that any of these certifications were or are incorrect, Employee's employment offer may be rescinded or employment may be terminated immediately. Further, if any present or past employer should take legal action against Employee or A2R based on allegations that are contrary to the certifications made herein, Employee agrees to be responsible for all costs and legal expenses associated with defense of any claim against Employee or A2R which are based on such allegations.

4. Employee agrees that s/he shall have no proprietary interest in the work product developed or used by A2R arising out of or in the course of her/his employment with A2R. Employee agrees to report to A2R any instance of accidental disclosure of any of the foregoing information so as to enable A2R to take such steps as may be appropriate to protect its interest.

5. The validity and interpretation of this Agreement shall be governed by the laws of the State of Alabama. If any provision of this Agreement is found to be invalid or unenforceable in whole or in part, the parties agree the remaining provisions of this Agreement shall remain valid and enforceable to the maximum extent compatible with existing law. This Agreement is effective as of the date set forth above and is the entire understanding and agreement of the parties relating to the protection of confidential and propriety information. Neither party shall be bound by any additional or other representation, condition, or promise except as subsequently set forth in writing signed by the party to be bound.

Employee

Date