SOLICITATION, OFFER AND AWARD

1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350) | RATING: DO-C9 | PAGE: 1 OF 489

2. CONTRACT NO.	3. SOLICITATION NO.	4. TYPE OF SOLICITATION	5. DATE ISSUED	6. REQUISITION/PURCHASE NO.
NNJ06HC01C	NNJ05098306R	☐ SEALED BID (IFB) ☒ NEGOTIATED (RFP)		

ISSUED BY CODE
A WSTF
RS/Charles A. Riley, Jr.
NASA Road 12600
Las Cruces, NM 88012

8. ADDRESS OFFER TO (If other than Item 7)
Same as Block 7

APPROVED
JSC PROCUREMENT OFFICER
2/28/06
DATE

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

SOLICITATION

9. Sealed offers in original and copies, as stated in Section L, for furnishing the supplies or services in the Schedule will be received at the places specified until the time and dates also specified in Section L.
CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L,. Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:	A. NAME	B. TELEPHONE NO. (NO COLLECT CALLS) AREA CODE	NUMBER	EXT.	C. EMAIL ADDRESS
	Charles A. Riley, Jr.	505	524	5727	charles.a.riley@nasa.gov

11. TABLE OF CONTENTS

(X)	SEC.	DESCRIPTION	PAGE(S)	(X)	SEC.	DESCRIPTION	PAGE(S)
		PART I – THE SCHEDULE				PART II – CONTRACT CLAUSES	
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☒	B	SUPPLIES OR SERVICES AND PRICES/COSTS	11			PART III – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.	
☒	C	DESCRIPTION/SPECS./WORK STATEMENT	54	☒	J	LIST OF ATTACHMENTS	351
☒	D	PACKAGING AND MARKING	3			PART IV – REPRESENTATIONS AND INSTRUCTIONS	
☒	E	INSPECTION AND ACCEPTANCE	5	☐	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	-
☒	F	DELIVERIES OR PERFORMANCE	8				
☒	G	CONTRACT ADMINISTRATION DATA	17	☐	L	INSTRS., CONDS., AND NOTICES TO OFFERORS	-
☒	H	SPECIAL CONTRACT REQUIREMENTS	13	☐	M	EVALUATION FACTORS FOR AWARD	-

OFFER (Must be fully completed by offeror)

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

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

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, clause No. 52-232-8)	10 CALENDAR DAYS	20 CALENDAR DAYS	30 CALENDAR DAYS	CALENDAR DAYS
	N/A %	N/A %	N/A %	N/A %

14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION). For offerors and related documents numbered and dated:

AMENDMENT NO	DATE	AMENDMENT NO	DATE
001	12 Jul 05	003	29 Jul 05
002	27 Jul 05	004	08 Aug 05

15. NAME AND ADDRESS OF OFFEROR: CODE 07486 FACILITY
Sverdrup Technology, Inc. DUNS 00-792-3014
600 William Northern Blvd., Tullahoma, TN 37388

16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)
Rogers F. Starr, President

15B. TELEPHONE NO. (Include area code)
(931) 455-6400

15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE – ENTER ☐ SUCH ADDRESS IN SCHEDULE

17. SIGNATURE
Rogers F. Starr

18. OFFER DATE
07 Dec 05

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED | 20. AMOUNT | 21. ACCOUNTING AND APPROPRIATION

22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION
☐ 10 U.S.C. 2304(c) ( ) ☐ 41 U.S.C. 253(c) ( )

23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified) | ITEM G.3

24. ADMINISTERED BY (If other than Item 7) CODE

25. PAYMENT WILL BE MADE BY CODE

26. NAME OF CONTRACTING OFFICER (Type or print)
Valerie A. Marburger

27. UNITED STATES OF AMERICA
Valerie A. Marburger
(Signature of Contracting Officer)

28. AWARD DATE
2/28/06

IMPORTANT – Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

SOLICITATION, OFFER AND AWARD

1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350) ➤ RATING: DO-C9

2. CONTRACT NO.	3. SOLICITATION NO.	4. TYPE OF SOLICITATION	5. DATE ISSUED	6. REQUISITION/PURCHASE NO.
NNJ06HC01C	NNJ05098306R	☐ SEALED BID (IFB) ☒ NEGOTIATED (RFP)		

ISSUED BY CODE

SA WSTF
: RS/Charles A. Riley, Jr.
NASA Road 12600
Las Cruces, NM 88012

8. ADDRESS OFFER TO *(If other than Item 7)*
Same as Block 7

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

SOLICITATION

9. Sealed offers in original and copies, as stated in Section L, for furnishing the supplies or services in the Schedule will be received at the places specified until the time and dates also specified in Section L.
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10. FOR INFORMATION CALL: ➤	A. NAME	B. TELEPHONE NO. *(NO COLLECT CALLS)* AREA CODE	NUMBER	EXT.	C. EMAIL ADDRESS
	Charles A. Riley, Jr.	505	524	5727	charles.a.riley@nasa.gov

11. TABLE OF CONTENTS

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☒	B	SUPPLIES OR SERVICES AND PRICES/COSTS	13			PART III – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.	
☒	C	DESCRIPTION/SPECS./WORK STATEMENT	54	☒	J	LIST OF ATTACHMENTS	214
☒	D	PACKAGING AND MARKING	3			PART IV – REPRESENTATIONS AND INSTRUCTIONS	
☒	E	INSPECTION AND ACCEPTANCE	5	☒	K	REPRESENTATIONS, CERTIFICATIONS AND	8
☒	F	DELIVERIES OR PERFORMANCE	8			OTHER STATEMENTS OF OFFERORS	
☒	G	CONTRACT ADMINISTRATION DATA	17	☐	L	INSTRS., CONDS., AND NOTICES TO OFFERORS	-
☒	H	SPECIAL CONTRACT REQUIREMENTS	13	☐	M	EVALUATION FACTORS FOR AWARD	-

OFFER *(Must be fully completed by offeror)*

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

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

13. DISCOUNT FOR PROMPT PAYMENT ➤ *(See Section I, clause No. 52-232-8)*	10 CALENDAR DAYS	20 CALENDAR DAYS	30 CALENDAR DAYS	CALENDAR DAYS
	N/A %	N/A %	N/A %	N/A %

14. ACKNOWLEDGMENT OF AMENDMENTS *(The offeror acknowledges receipt of amendments to the SOLICITATION).* For offerors and related documents numbered and dated:	AMENDMENT NO	DATE	AMENDMENT NO	DATE
	001	12 Jul 05	003	29 Jul 05
	002	27 Jul 05	004	08 Aug 05

15. NAME AND ADDRESS OF OFFEROR	CODE 07486	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER *(Type or print)*
	Sverdrup Technology, Inc. 600 William Northern Blvd., Tullahoma, TN 37388	DUNS 00-792-3014	Rogers F. Starr, President

15B. TELEPHONE NO. *(Include area code)*	15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE – ENTER	17. SIGNATURE	18. OFFER DATE
(931) 455-6400	☐ SUCH ADDRESS IN SCHEDULE		07 Dec 05

AWARD *(To be completed by Government)*

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION

22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION	23. SUBMIT INVOICES TO ADDRESS SHOWN IN: ➤ *(4 copies unless otherwise specified)*	ITEM
☐ 10 U.S.C. 2304(c) ( ) ☐ 41 U.S.C. 253(c) ( )		G.3

24. ADMINISTERED BY *(If other than Item 7)* CODE	25. PAYMENT WILL BE MADE BY CODE

26. NAME OF CONTRACTING OFFICER *(Type or print)*	27. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	28. AWARD DATE

TANT – Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

AMENDMENT OF SOLICITATION/MODIFICATION OF

1. CONTRACT ID CODE	PAGE	OF	PAGES
	1		95

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
001 RFP **NNJ05098306R**	See block 16C.	N/A	

BY CODE RS

SA /WSTF Johnson Space Center
PO Box 20
Attn: RS/Charles A. Riley, Jr.
Las Cruces, NM 88004-0020

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP: Code)

TO ALL INTERESTED PARTIES

CODE FACILITY CODE

(4) X

9A. AMENDMENT OF SOLICITATION NO. **NNJ05098306R**

9B. DATED (SEE ITEM 11) 6/29/05

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 13)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER Specify type of modification and authority)

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (organized by UCFsection headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment is to:

(a) update Sections G, L and L-3 to reflect the correct mailing/shipping address,

(b) Sample ACA was deleted from the page count for list of plans (page L-11) in Section L,

(c) References to Sample Delivery Order 6 were deleted from Section L (Table 2, page L-31)

The TEC acquisition website can be accessed at the following Internet site:

URL: http://procurement.jsc.nasa.gov/team

All other information remains unchanged.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
Rogers F. Starr, President		Charles A. Riley, Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR Rogers F. Starr (Signature of person authorized to sign)	15C. DATE SIGNED 8/15/05	16B. UNITED STATES OF AMERICA BY Original Signed by /s/ (Signature of Contracting Officer)	16C. DATE SIGNED 7/12/05

NSN 7540-01-152-8070 30-105 STANDARD FORM 30 (REV. 10-83)
PREVIOUS EDITION UNUSABLE COMPUTER GENERATED Prescribed by GSA FAR (48 CFR) 53.243

AMENDMENT OF SOLICITATION/MODIFICATION OF

1. CONTRACT ID CODE	PAGE	OF	PAGES
	1		171

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
002 RFP **NNJ05098306R**	See block 16C.	N/A	

6. ISSUED BY — CODE RS

GSA JSC WSTF
PO Box 20
Attn: RS/Charles A. Riley, Jr.
Las Cruces, NM 88004-0020

7. ADMINISTERED BY *(If other than Item 6)* — CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, county, State and ZIP: Code)*

TO ALL INTERESTED PARTIES

CODE — FACILITY CODE

(4) X

9A. AMENDMENT OF SOLICITATION NO. **NNJ05098306R**

9B. DATED *(SEE ITEM 11)* 6/29/05

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

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☐ C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

☐ D. OTHER Specify type of modification and authority)

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (organized by UCFsection headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment is to:

(a) publish all questions and answers resulting from the release of the Final RFP,

(b) update the following sections due to questions/answers: B, F, G, I, J-1, J-2, K, L, L-1, and M. A Change Log contains the specific changes.

The TEC acquisition website can be accessed at the following Internet site:

URL: http://procurement.jsc.nasa.gov/team

All other information remains unchanged.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Rogers F. Starr, President		Charles A. Riley, Jr. Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
Rogers F. Starr *(Signature of person authorized to sign)*	8/15/05	Original Signed By Charles A. Riley, Jr. *(Signature of Contracting Officer)*	7/27/05

AMENDMENT OF SOLICITATION/MODIFICATION OF

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
03 RFP **NNJ05098306R**	See block 16C.	N/A	

BY CODE RS

.SA JSC WSTF
PO Box 20
Attn: RS/Charles A. Riley, Jr.
Las Cruces, NM 88004-0020

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP: Code)

TO ALL INTERESTED PARTIES

CODE FACILITY CODE

(4) X

9A. AMENDMENT OF SOLICITATION NO. **NNJ05098306R**

9B. DATED (SEE ITEM 11) 6/29/05

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 13)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

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(a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER Specify type of modification and authority)

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (organized by UCFsection headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment is to publish the following file:

TEC Questions and Answers Amendment 3

The TEC acquisition website can be accessed at the following Internet site:

URL: http://procurement.jsc.nasa.gov/team

All other information remains unchanged.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
Rogers F. Starr, President		Charles A. Riley, Jr. Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
Rogers F. Starr (Signature of person authorized to sign)	8/15/05	BY Original Signed By Charles A. Riley (Signature of Contracting Officer)	7/29/05

AMENDMENT OF SOLICITATION/MODIFICATION OF

1. CONTRACT ID CODE	PAGE 1 OF PAGES 71

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
004 RFP **NNJ05098306R**	See block 16C.	N/A	

6. ISSUED BY	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE
SA JSC WSTF . J Box 20 Attn: RS/Charles A. Riley, Jr. Las Cruces, NM 88004-0020	RS		

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP: Code)	(4)	9A. AMENDMENT OF SOLICITATION NO.
TO ALL INTERESTED PARTIES	X	**NNJ05098306R**
		9B. DATED (SEE ITEM 11) 6/29/05
		10A. MODIFICATION OF CONTRACT/ORDER NO.
CODE / FACILITY CODE		10B. DATED (SEE ITEM 13)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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(a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER Specify type of modification and authority)

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (organized by UCFsection headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment is to:

1. post TEC Change Log
2. update L.22, Submission of Proposals, to delete the requirement for delivery of completed contract, SF30, and Representations and Certifications to JSC,
3. in L..4, Proposal Content, delete the requirement for the offeror to complete "Offeror Representations and Certifications-Other Than Commercial" since this clause was deleted in amendment 3,
4. advise offerors to clear the contents of cell H6 and do not enter information in column H of the IDIQ Workbook, DOPT Spreadsheet. This cell has the title for Sample Delivery Order 6 (which is not included as part of the RFP).

The TEC acquisition website can be accessed at the following Internet site:

URL: http://procurement.jsc.nasa.gov/team

All other information remains unchanged.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
Rogers F. Starr, President	Charles A. Riley, Jr. Contracting Officer

15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
Rogers F. Starr (Signature of person authorized to sign)	8/15/05	BY Original Signed By Charles A. Riley (Signature of Contracting Officer)	8/5//05

NSN 7540-01-152-8070 30-105 STANDARD FORM 30 (REV. 10-83)
PREVIOUS EDITION UNUSABLE COMPUTER GENERATED Prescribed by GSA FAR (48 CFR) 53.243

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PART I - THE SCHEDULE

SECTION B - SUPPLIES OR SERVICES AND PRICE/COSTS

B.1 SUPPLIES AND/OR SERVICES TO BE FURNISHED

General – The Contractor shall provide all resources (except as may be expressly stated in this contract as furnished by the Government) necessary to provide the services in accordance with the Statement of Work (SOW) in Section C. The services to be performed under the terms and conditions of this contract will be acquired by either Completion Form (CF) or Indefinite Delivery Indefinite Quantity (IDIQ) as detailed below:

(a) Completion Form Services: Routine Cost-Reimbursable (CR)/ services described in the SOW that are routinely required and for which workload requirements are specified.

(b) IDIQ Services: Non-routine services described in the SOW that allow the Government to acquire additional services within the general scope of the SOW that either are not routine in nature or for which an accurate workload estimate does not exist at the time of contract award. The Government may order IDIQ services as either cost reimbursable or fixed price.

(c) All sections in the Statement Of Work (SOW) are IDIQ with the exception of the following sections, which are completion form:

WBS	Title
3.1	Management Systems
3.2	General Requirements
3.3.1	System Safety Management
3.4.1	Training Management & Administration
3.5	Quality Assurance

B.2 INDEFINITE DELIVERY INDEFINITE QUANTITY (IDIQ)

(a) The guaranteed minimum contract value of work that will be ordered under this contract, and which will be initiated through the issuance of either fixed-price or cost-reimbursable orders shall be $1,000,000 per year. The maximum value that can be ordered under the ID/IQ provisions of this contract per contract year is $50,000,000.

(b) If the Government orders supplies or services in excess of the minimum but not up to the maximum, this circumstance shall not constitute the basis for an equitable adjustment to any contract price, estimated cost or fee.

(c) The pricing of IDIQ delivery orders for this contract shall be in accordance with the negotiated and fully burdened average labor rates as shown in the tables below. These rates are fully burdened but without fee/profit. Note that the bottom of the tables allow for indirect rates applied if applicable. For example, an application of a material handling rate on materials. In addition, these tables include a line for a maximum fee rate/profit% that may be proposed on delivery orders.

SEE TABLES B-1 AND B-2 ON NEXT PAGE

TEC IDIQ RATE TABLE FOR COST REIMBURSABLE ORDERS

Table B-1

TEC IDIQ RATE TABLE FOR FFP ORDERS

Table B-2

* The contractor warrants that the prices in this table do not include any allowance for any contingency to cover increased costs for non-exempt labor, for which adjustment is provided under the "Fair Labor Standards Act and Service Contract Act – Price Adjustment (Multiple Year and Option Contracts)" clause (FAR 52.222-43).

The following contract clause entitled "ESTIMATED COST/PRICE AND FEE" identifies the estimated cost/price for both completion form (CF) and Indefinite Delivery/Indefinite Quantity (IDIQ) as well as the maximum award fee. The following clause will be updated on a periodic basis to reflect the issued IDIQ orders.

B.3 ESTIMATED COST/PRICE AND FEE (NFS 1852.216-85) (SEP 1993)***

(a) The estimated cost of this contract is stated below. The maximum available award fee, excluding base fee, if any, is stated below. The base fee is $0. Total estimated cost/price, base fee, and maximum award fee are stated below.

(b) The estimated cost and award fee for this contract is broken out as follows:

BASIC

	YEAR 1			
	COST / PRICE	MAX AWARD FEE	NMGRT	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,557,947	$ 284,636	$ 223,350	$ 4,065,932
PHASE-IN FP	$ 350,000	[redacted]	$ 20,344	$ 370,344
SUBTOTAL	$ 3,907,947	$ 284,636	$ 243,694	$ 4,436,276
CR DO'S (T1-X)	$ -	$ -		$ -
FFP DO'S (D1-X)	$ -	[redacted]		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ -	$ -	$ -	$ -
TOTAL CONTRACT VALUE YEAR 1	$ 3,907,947	$ 284,636	$ 243,694	$ 4,436,276

GREEN = INPUT AREA / YELLOW = FORMULA OR NO INPUT
BLACK = NO INPUT AREA

	YEAR 2			
	COST / PRICE	MAX AWARD FEE	NMGRT	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,583,938	$ 286,715	$ 224,982	$ 4,095,635
SUBTOTAL	$ 3,583,938	$ 286,715	$ 224,982	$ 4,095,635
CR DO'S (T1-X)	$ -	$ -		$ -
FFP DO'S (D1-X)	$ -	[redacted]		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ -	$ -	$ -	$ -
TOTAL CONTRACT VALUE YEAR 2	$ 3,583,938	$ 286,715	$ 224,982	$ 4,095,635
TOTAL YEAR 1 VALUE	$ 3,907,947	$ 284,636		$ 4,192,582
TOTAL CONTRACT VALUE YEAR 1 - 2	$ 7,491,885	$ 571,351		$ 8,063,236

GREEN = INPUT AREA / YELLOW = FORMULA OR NO INPUT
BLACK = NO INPUT AREA

	YEAR 3			
	COST / PRICE	MAX AWARD FEE	NMGRT	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,513,022	$ 281,042	$ 220,530	$ 4,014,594
SUBTOTAL	$ 3,513,022	$ 281,042	$ 220,530	$ 4,014,594
CR DO'S (T1-X)	$ -	$ -	$ -	$ -
FFP DO'S (D1-X)	$ -	[redacted]		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ -	$ -	$ -	$ -
TOTAL CONTRACT VALUE YEAR 3	$ 3,513,022	$ 281,042	$ 220,530	$ 4,014,594
TOTAL CONTRACT VALUE YEAR 1	$ 3,907,947	$ 284,636	$ 243,694	$ 4,436,276
TOTAL CONTRACT VALUE YEAR 2	$ 3,583,938	$ 286,715	$ 224,982	$ 4,095,635
TOTAL CONTRACT VALUE YEAR 1-3	$ 11,004,907	$ 852,393	$ 689,206	$ 12,546,506

GREEN = INPUT AREA / YELLOW = FORMULA OR NO INPUT
BLACK = NO INPUT AREA

OPTIONS

	YEAR 4			
	COST / PRICE	MAX AWARD FEE	NMGRT	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,611,056	$ 288,884	$ 226,684	$ 4,126,624
SUBTOTAL	$ 3,611,056	$ 288,884	$ 226,684	$ 4,126,624
CR DO'S (T1-X)	$ -	$ -	$ -	$ -
FFP DO'S (D1-X)	$ -	[redacted]		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ -	$ -	$ -	$ -
TOTAL CONTRACT VALUE YEAR 4	$ 3,611,056	$ 288,884	$ 226,684	$ 4,126,624
TOTAL CONTRACT VALUE YEAR 1	$ 3,907,947	$ 284,636	$ 243,694	$ 4,436,276
TOTAL CONTRACT VALUE YEAR 2	$ 3,583,938	$ 286,715	$ 224,982	$ 4,095,635
TOTAL CONTRACT VALUE YEAR 3	$ 3,513,022	$ 281,042	$ 220,530	$ 4,014,594
TOTAL CONTRACT VALUE YEAR 1-4	$ 14,615,963	$ 1,141,277	$ 915,890	$ 16,673,130

GREEN = INPUT AREA / YELLOW = FORMULA OR NO INPUT
BLACK = NO INPUT AREA

	YEAR 5			
	COST / PRICE	MAX AWARD FEE	NMGRT	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,698,179	$ 295,854	$ 232,153	$ 4,226,186
SUBTOTAL	$ 3,698,179	$ 295,854	$ 232,153	$ 4,226,186
CR DO'S (T1-X)	$ -	$ -	$ -	$ -
FFP DO'S (D1-X)	$ -	[redacted]		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ -	$ -	$ -	$ -
TOTAL CONTRACT VALUE YEAR 5	$ 3,698,179	$ 295,854	$ 232,153	$ 4,226,186
TOTAL CONTRACT VALUE YEAR 1	$ 3,907,947	$ 284,636	$ 243,694	$ 4,436,276
TOTAL CONTRACT VALUE YEAR 2	$ 3,583,938	$ 286,715	$ 224,982	$ 4,095,635
TOTAL CONTRACT VALUE YEAR 3	$ 3,513,022	$ 281,042	$ 220,530	$ 4,014,594
TOTAL CONTRACT VALUE YEAR 4	$ 3,611,056	$ 288,884	$ 226,684	$ 4,126,624
TOTAL CONTRACT VALUE YEAR 1-5	$ 18,314,142	$ 1,437,131	$ 1,148,043	$ 20,899,316

GREEN = INPUT AREA / YELLOW = FORMULA OR NO INPUT
BLACK = NO INPUT AREA

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: March 1, 2006, through _____.

(b) The additional amount obligated under this contract for payment of fee is stated below.

	Total Amount Alloted for Funding		
	Cost/Price	**Award Fee**	**Total**
CF (CR)			**$0**
Phase-In (FP)		**$0**	**$0**
CR DO's (T1 - ___)			**$0**
FFP DO's (D1 - ___)		**$0**	**$0**
Total	**$0**	**$0**	**$0**

[END OF SECTION]

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Test and Evaluation Contract (TEC)
Statement of Work (SOW)

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1.0 Introduction

"The mission of WSTF is to provide the expertise and infrastructure to test and evaluate spacecraft materials, components, and propulsion systems to enable the safe human exploration and utilization of space."

The Technical and Evaluation Contract (TEC), a Completion Form and ID/IQ contract, provides services for performance of the primary mission of the White Sands Test Facility (WSTF), which includes materials and components testing, propulsion testing, and depot activities. This Statement of Work (SOW) describes the general scope of the projects and processes critical to the fulfillment of WSTF's primary mission. Support functions that are necessary for supporting the delivery of products and processes are described with specific performance standards and requirements.

2.0 Operating Environment

WSTF is a Government-owned, Government-operated installation. Government-Contractor and Contractor-Contractor partnering is essential to the success of WSTF operations. Therefore, Associate Contractor Agreements (ACA's) shall be required between TEC and Facility Operations Support Contract (FOSC) Contractors (and with other support Contractors as needed).

NASA and Contractor personnel share the responsibility for ensuring that procedures and operations are performed safely and consistent with NASA, Federal, and State regulations to minimize hazards to personnel, property, and the environment. NASA and all current Contractors hold a VPP Star certification. At WSTF this safety focus takes on particular significance because of the hazardous operating environment.

3.0 Site-wide Operating Requirements

The Contractor shall perform this contract and all ordered work, furnishing all resources, labor, equipment, materials, and services required to meet the contract and project performance requirements, except where specifically stated as provided by the Government. The Contractor shall ensure all elements of this contract, whether performed by the Contractor or fulfilled through agreement with other parties, are fully integrated and maintained to meet WSTF's ultimate mission and objectives. Workload sizing data is listed in Section J-12.

3.1 Management Systems

WSTF has established a management system that ensures that products conform to specified requirements. This system is documented in the WSTF Management System documentation which consists of the Management System Manual (MSM) and the WSTF Document System (WDS).

Requirements under this element are Completion Form.

The MSM defines the top level management system policies and outlines the structure of the documentation used in the management system. It contains the WSTF Mission Statement and a description of the scope of registration for both ISO 9001 and 14001.

The WDS contains the procedures and instructions consistent with WSTF's stated management policy and used to carry out WSTF Operations. These are all linked through the MSM. The WDS consists of Product Processes, Infrastructure Processes, WSTF Standard Procedures (WSP's), WSTF Standard Instructions (WSI's), and WSTF Job Instructions (WJI's). The Product and Infrastructure processes are process diagrams that map the required activities necessary to satisfy WSTF policies and achieve product quality. There are 8 product processes including Component Refurbishment; Component, Fluid, and Material Testing; Hazard Analysis; Propulsion System Testing; Research and Development; Standard Testing; Training, Development, and Education; and White Sands Space Harbor Operations. There are 47 infrastructure processes which map the primary support functions to the product processes. The WSTF Standard Procedure (WSP) and WSTF Standard Instruction (WSI) are used to document internal requirements in the form of lists of rules or general instructions. WSP's and WSI's are listed as either site-wide or department requirements according to the numbering index used for the document and contained in Table 1 listed below.

Table 1

MSM Document Category	Category Descriptor
01	Management Responsibility
02	Quality System Requirements
03	Customer Agreements
04	Design Control
05	Document and Data Control
06	Purchasing
07	Control of Customer Supplied Product
08	Product Identification and Traceability
09	Process Control
10	Inspection and Testing
11	Control of Inspection, Measuring, and Test

MSM Document Category	Category Descriptor
	Equipment
12	Inspection and Test Status
13	Control of Non-conforming Product
14	Corrective and Preventive Action
15	Handling, Storage, Packaging, Preservation, and Delivery
16	Quality Records
17	Internal Auditing
18	Training
19	*Reserved*
20	Statistical Techniques
21	Software
22	Environmental Management System
23	*Reserved*
24	Security
25	Safety

The WSTF Job Instruction (WJI) is used to document work instructions which provide step-by-step directions for performing a specific job or task. Process and Infrastructure processes contain links to other WSTF documents such as WSP's, WSI's, or WJI's. A hierarchy of authority for this relationship can be found in Figure 3.2.a.

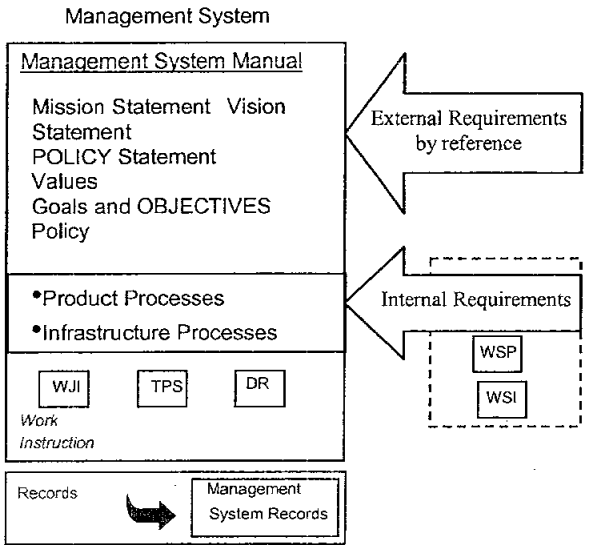

Figure 3.2.a. WSTF document structure showing hierarchy of documents and their uses

WSTF is a certified ISO 9001 and ISO 14001 site and WSTF Management System documents are consistent with the requirements of these standards. The scope of the 9001 certification is:

White Sands Test Facility provides engineering and scientific services to external customers for test, evaluation, and maintenance of materials, components, propulsion and power systems, and landing facilities.

The scope of the 14001 certification is:

The environmental management system of White Sands Test Facility located in Las Cruces, NM associated with the testing, evaluation, and maintenance of spacecraft materials, components, and propulsion systems

A Third-Party Registrar certifies WSTF to ISO 14001 and ISO 9001. This certification is currently a site certification inclusive of a joint Contractor-Government effort and supports integration of WSTF management and work processes.

One of the foundations of the ISO 9001 and 14001 certifications is the MSM and the associated WDS. Audits to certify to these ISO standards are to the MSM and WDS. Contractor and NASA policies, processes, and procedures necessary for these certifications are integrated in both the MSM and WDS. The WDS also contains the documents necessary to maintain and operate all institutional support functions, including many functions that are beyond the scope of this contract. The Contractor shall comply with all applicable instructions, procedures, processes, roles, and responsibilities defined in the MSM and WDS and shall manage and continuously improve these instructions, procedures, and processes.

The latest version of MSM and WDS are incorporated by reference and form a part of this SOW requirement.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Comply with all requirements in MSM and WDS.	MSM and WDS
b.	Maintain WSTF certification to ISO 9001 and 14001.	MSM and WDS Third party certification
c.	Perform internal audits with other WSTF-resident contractor and NASA representatives.	Internal Audit Performance and Reporting Infrastructure
d.	Respond to and implement corrective/preventive actions for deficiencies within this contract.	Corrective/Preventive Action Request Infrastructure Process

3.2 General Requirements

The Contractor shall provide appropriate management of personnel, data and data systems, equipment and property, schedules, projects, training, records, acquisitions, subcontracts, and business functions necessary to perform the statement of work, deliver all required DRDs and other deliverables, and meet all contract requirements including safety, quality, environmental, and energy conservation. This includes procurement of materials, supplies and other non-labor resources for all TEC activities. Logistics of receiving and shipment is an FOSC function including the warehousing of commonly used components and supplies.

Requirements under this element are Completion Form.

The following Performance Requirements and Standards are applicable to all functions within the SOW.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Ensure support agreements (e.g., ACAs, MOUs, contracts, purchase orders, et. al.) are in place to meet WSTF mission and objectives. Provide evidence of mission readiness as necessary to fulfill project requirements and customer agreements.	WSTF mission is not adversely impacted

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
b.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. In accordance with (IAW) DRD 001 Project Reporting	WSP 9-0014 Delivery Order(s)
c.	Ensure all Inspection, Testing, and Measuring Equipment (IMTE) is within calibration during data measurement.	Calibration Infrastructure Process
d.	Operate certified Pressurized Vessels and Systems (PV/S). Create and maintain documentation package for certification. Note: In accordance with the stated Infrastructure Process S&MA will perform the certification inspection and TEC will perform the annual configuration verification for the required PV/S.	Pressure Vessel systems Infrastructure Process
e.	Provide highly effective project management of ID/IQ projects.	WSP 9-0014 Project Management Body of Knowledge (PMBOK®)
f.	Maintain and develop Facility and System Baseline Documentation (~100-150 systems site wide).	WSP 25-0011

3.3 Test System Safety Requirements

All activities at WSTF shall be performed in a safe and healthful manner in accordance with OSHA regulations (29 CFR 1910, 1926) and NASA WSTF Safety and Health Policies. In cooperation with NASA, adherence to 29 CFR 1960 is also required to ensure safety practices are consistent for all WSTF employees. Safety and health are the responsibility of each employee at WSTF and facilitated by effective regulatory management, WSTF leadership commitment, and the active involvement of the WSTF workforce.

System safety techniques and readiness review provisions are jointly conducted with NASA and Contractor to identify unique hazards associated with test and evaluation services. Because of the hazardous and complex nature of test and evaluation activities at WSTF, it is necessary to analyze for unique hazards using system safety disciplines.

3.3.1 System Safety Management

Qualified System Safety and Industrial Safety expertise is required to assure hazards are appropriately identified and mitigated and to provide coordination with project and FOSC Institutional Safety representatives to provide independent review of Hazard Analysis, System Safety Analysis and Readiness Review results. This expertise also provides assistance in resolving residual risks.

Requirements under this element are Completion Form.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Provide and coordinate performance of a Safety and Health plan IAW DRD 002 Safety and Health Plan.	29 CFR 1910, 1926, and 1960 NPR 8715.3 JPR 1700.1 WSP 25-0002 MSM 4.2.1.7 Safety and MSM 4.2.1.8 Emergency Management Injury rates below applicable BLS NAICS averages
b.	Review 80 to 100 hazard analysis, system safety analysis, and readiness reviews information for appropriate identification of hazards and acceptability of associated controls, each year.	29 CFR 1910, 1926, and 1960 NPR 8715.3 JPR 1700.1 WSP 25-0002 WSI 25-SW-0032 Safety and Readiness Review Infrastructure Process System Safety Analysis Review Infrastructure Process
c.	Investigate 75 to 100 potential hazards and system safety compliance issues and provide consultation to project personnel on options for compliance. Coordinate minimum weekly with FOSC Institutional Safety and NASA representatives as necessary.	29 CFR 1910, 1926, and 1960 NPR 8715.3 JPR 1700.1 MSM 4.2.1.7 Safety WSP 25-0002
d.	Assess WSTF compliance with Process Safety Management	29 CFR 1910.1450 29 CFR 1910.119

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	of Highly Hazardous Chemicals and OSHA Laboratory Standard.	WSP 25-0002 WSI 25-SW-0005

3.3.2 Project System Safety Implementation

The project community is required to ensure that hazards identified are effectively eliminated or controlled in accordance with the associated system safety and readiness review activities.

Requirements under this element are IDIQ.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Perform hazard analysis, system safety analysis, and readiness reviews to identify hazards and develop associated controls.	WSP 25-0002 WSI 25-SW-0032 Safety and Readiness Review Infrastructure Process System Safety Analysis Review Infrastructure Process WSTF customer agreements.
b.	Prepare hazard investigation reports assessing hazard potential and system safety compliance issues.	WSP 25-0002 WSI 25-SW-0032 Safety and Readiness Review Infrastructure Process System Safety Analysis Review Infrastructure Process WSTF customer agreements.
c.	Comply with Process Safety Management of Highly Hazardous Chemicals and OSHA Laboratory Standard.	29 CFR 1910.1450 29 CFR 1910.119 WSI 25-SW-0005
d.	Provide auxiliary resources for necessary training and emergency response to ensure availability of contingency assistance in event of a major emergency. Capabilities (minimum 4 personnel) must be available during hazardous test operations.	WSP 25-0002 OSHA 29 CFR 1910.120(q), 1910.146 and 1910.156 Capabilities must meet NFPA 1081 standards and augment NFPA 1500 and NASA-STD 8719.11 mandated functions.

3.4 Technical Training

Contractor personnel must be adequately prepared to meet the performance challenges faced at WSTF and to expand, develop, and advance processes and capabilities associated with the WSTF mission. The Contractor shall ensure that personnel performing specific assigned tasks are qualified on the basis of appropriate education, training, and/or experience. See Section J-10 for training requirements and description.

3.4.1 Training Management & Administration

The Contractor shall schedule, track, and report training status for training provided in support of TEC personnel.

Requirements under this element are Completion Form.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	Ensure training status is accurately reported to the FOSC Contractor. There are approximately 800 active training categories, with approximately 24,000 current training actions active (See Section J-10).	Accurate reporting of training status within one week of training delivery.

3.4.2 Training Development & Delivery

Development and delivery of training is supported by the projects requiring qualified employee performance. Training shall be made available for all WSTF-resident Contractors and NASA personnel associated with the technical activities performed within the scope of this contract.

Requirements under this element are IDIQ.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Ensure that TEC personnel are adequately trained and certified to perform assigned tasks. There are approximately 800 active training categories, with approximately 24,000 current training actions active (See Section J-10).	Component Refurbishment Product Process MSM Section 4.1.1 WSP 18-0001 WSTF Customer Agreements

b.	Ensure that personnel are adequately trained and certified to perform special processes. Processes include soldering, crimping, harness/cabling, fiber optic splicing, welding, nondestructive testing, particle counting, and plastics application (potting). Additional special processes will be identified as subject to special process certification upon development of unique test capabilities or requirements.	18-SW-0002 MSM Section 4.1.1 WSP 18-0001 WSTF Customer Agreements

3.5 Quality Assurance

A quality assurance program provides for integration of product quality considerations, verification techniques, and objective evidence throughout the project planning, implementation, and product realization phases.

The Contractor shall provide quality plans, controls, systems, processes, and maintain objective evidence required to assure successful performance of WSTF activities. In addition, the Contractor shall provide services for the verification and acceptance of FOSC services integral to TEC product delivery, and documentation required to assure successful realization of WSTF products.

Requirements under this element are Completion Form.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Prepare and maintain a Quality Plan. IAW DRD 003 Quality Data Plan and Report.	ISO 9001 MSM 1.0 MSM Section 2.0 WSP 02-0001 WSP 02-0002
b.	Perform work document initiation, in-process control, and close-out actions. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	WSP 02-0001 WSP 02-0002 Test Preparation Sheet Processing Infrastructure Process WSI 05-SW-0004 WSI 05-SW-0017 WSI 09-SW-0001 WSI QARSO-Q-0901 WSI QARSO-Q-0905 95% of in-process documentation will meet

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
		requirements applicable for the individual process phase 99% of closed documentation will meet applicable document requirements
c.	Provide storage of and ready access to work documents/records to facilitate confirmation of systems configurations, research of past process and system developments, and objective evidence of product conformance.	WSP 05-0002 WSP 05-0011 WSI QARSO-Q-0901 WSI QARSO-Q-0903 WSI QARSO-Q-1601 Ensure records status and associated data is readily available to WSTF personnel within 24 hrs of request.
d.	Perform work document review and coordination. Review includes verification of all current deviations, revisions, and modifications. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	WSP 02-0001 WSP 02-0002 Test Preparation Sheet Processing Infrastructure Process WSI 09-SW-0001 WSI 05-SW-0017 WSI QARSO-Q-0901 Review must be completed within 2 hours of submittal or as necessary to meet milestone negotiated with project representatives.
e.	Perform pressure vessel/system (PV/S) surveillance and configuration verification for each active pressure system on an annual basis. (PV/S consists of approximately 250 systems totaling 8000 components of which 2000 are vessels.) Refer to Section J-11 for list of all PV/S	WSP 09-0015 WSI 09-SW-0005 Pressure Vessel Systems Infrastructure Process All surveillance and configuration verification shall be performed within one week of submission
f.	Maintain the Discrepancy Record system which is employed to document product nonconformance and corrective or preventive action. Verify status and closure of identified product nonconformance. (Approximately 2000 DR's are processed annually.)	MSM Section 3.11 Discrepancy Record (DR) Infrastructure Process WSP 13-0001 WSI 13-SW-0001 WSI QARSO-Q-0901

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
g.	Perform the QA functions associated with the project problem reporting systems.	Component Refurbishment Product Process Notification of NASA S&MA, project manager, and project leader shall be within 1 hour of flight hardware or customer-supplied hardware discrepancies identified.
h.	Maintain an automated document status, inventory, and archival system for site-wide access.	WSP 05-0002 WSP 05-0011 WSI QARSO-Q-0901 WSI QARSO-Q-0903 WSI QARSO-Q-1601 Document status reports shall be provided within 2 hours of request for formal pretest review, project planning, or audit/survey purposes
i.	Perform project and process controls verification, non-destructive evaluation and inspection, and dimensional and volumetric acceptance of fabricated parts. Perform dimensional and volumetric acceptance of fabricated parts intended for flight or critical applications. (20 - 40 components fabricated annually with 20 to 200 dimensions each to verify.) Perform project and process controls verification. Perform non-destructive evaluation and inspection of critical product characteristics as stipulated in project plans and customer agreements. (Approximately 160 major repairs or test processes which require 100+ verifications and 4 to 24 hours of dedicated participation. In addition, a number of selected process characteristics occur on various smaller activities totally approximately 10,000 verifications.)	WSI QARSO-Q-0906, WSI QARSO-Q-1001 WSP 02-0001 WSP 02-0002 WSP 10-0001 WSP 09-0022 Provide visual process verification within 30 minutes of request performed by individuals qualified for the activity Specialized NDE or dimensional verification tasks must be performed and completed to meet milestones negotiated with project representatives

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
j.	Prepare WSTF Data Packages (WDP) for each project when required by the customer to verify accuracy of project records, and assure resolution of product nonconformance. (60 – 100 WDP produced annually)	WSP 02-0001 WSI 16-SW-0001 WJI PAD-QA-0017 WDP will be completed within 3 working days of data compilation 100% of completed records will meet MSM, WDS, and customer specified requirements which reflect product acceptance data
k.	Perform audit of WSTF suppliers to assure they are capable of meeting customer requirements. (Approximately 10 vendor assessments performed a year.) Verify receipt and delivery of acceptable materials and products. Review procurement requests, orders, specifications and related documents for safety and quality assurance provisions applicable to the associated project requirements. Verify material, batch lot, or acceptance testing is performed to establish or confirm compliance with project specifications.	MSM Section 3.4 WSI 17-SW-0002 Surveyed Vendor List New Infrastructure Process Surveyed Vendor List Review Infrastructure Process PR/PO Infrastructure Process Supplier assessments must meet timeline negotiated with project representatives. Receiving inspection must be initiated within 1 hour of notification or as necessary to meet milestone negotiated with project representatives.
l	Provide quality verification of White Sands Space Harbor (WSSH) to assure operational readiness of WSSH navigational aids and runway conditions for Shuttle missions (~5 Shuttle missions per year). Designated verification will be accomplished daily by the FOSC to assure readiness of navigation aids and runway conditions for Shuttle Training Aircraft activities.	WSP 02-0001 WSI 24-SW-0001 WSSH Operations Product Process

3.6 Environmental Requirements

Operations at WSTF shall be performed in accordance with existing permits, laws, and regulations (i.e., Clean Air Act, RCRA, Clean Water Act, etc.). The Facility Operations and Support Contract (FOSC) will manage the environmental compliance and restoration program at the NASA WSTF. However, the Test and Evaluation Contract will support FOSC by providing required permit data to FOSC and ensuring TEC operations comply with existing laws and regulations. FOSC will provide regulatory guidance and interpretation to TEC. The Contractor shall comply with MSM Section 4.2.1.6, Environmental Management System and WSP 22-0021, Legal and Other Requirements. These standards apply to all of the following performance requirements.

Requirements under this element are IDIQ.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Provide required data to FOSC to fulfill compliance and regulatory requirements for air permits and discharge permits which enable TEC operations.	WSI 22-SW-0011 MSM 4.2.1.6 Environmental Management System
b.	Manage hazardous waste generated during TEC operations, maintain logbooks for satellite accumulation areas in TEC operation areas, and coordinate disposal of hazardous waste through FOSC	WSI 22-SW-0005 MSM 4.2.1.6 Environmental Management System Waste Management Infrastructure Process WJI ENV Series
c.	Coordinate hazardous waste transfers to Fuel Treatment Unit (FTU) and the Evaporation Tank Unit (ETU) with FOSC	MSM 4.2.1.6 Environmental Management System Waste Management Infrastructure Process WJI ENV Series
d.	Support site-wide recycling program and green purchases	WSP 22-0021 MSM 4.2.1.6 Environmental Management System
e.	Manage requirements for Above-ground Storage Tanks that support TEC operations	WSP 22-0021 MSM 4.2.1.6 Environmental Management System
f.	Comply with site wide National	MSM 4.2.1.6 Environmental Management

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	Environmental Policy Act (NEPA) requirements including initiating Records of Environmental Considerations, Permits to Excavate	System
g.	Report environmental spills to FOSC and submit information for preparation of spill reports and/or cleanup	WSI 22-SW-0005 WJI ENV Series MSM 4.2.1.6 Environmental Management System
h.	Participate in on-site internal and external environmental audits, inspections, and other functional reviews.	WSP 17-0001 MSM 4.2.1.6 Environmental Management System

4.0 Propulsion

Propulsion testing projects include a broad scope of activities. These activities include rocket engine and propulsion system tests at ambient and simulated altitudes with a variety of propellants and test articles. Fleet lead and special component tests support the Shuttle and International Space Station programs. These include flight and ground support equipment components testing, and analysis of functionality and fluid compatibility, anomaly analysis, development, qualification, and acceptance testing. New test systems are designed, installed and validated for use as required for WSTF customers. WSTF personnel conduct preventive and remedial maintenance on the test and support systems.

This section provides the scope and requirements for the management of propulsion testing projects. The requirements for personnel to conduct and support propulsion testing projects are also provided.

The propulsion testing projects are divided into the following four functions:

- Rocket Test Projects
- Related Test Projects
- System Maintenance and Repair
- System/Facility Upgrades

Each of these activities is described in the following sections.

Requirements under this element are ID/IQ.

4.1 Rocket Test Projects

WSTF engages in rocket engine and propulsion systems-related projects, which consist of altitude and ambient testing of liquid rocket engines, solid rocket motors, and integrated propulsion systems.

The Contractor shall design, operate, and maintain systems that employ the following propellant types: hypergolic propellants (e.g., dinitrogen tetroxide [NTO] and monomethylhydrazine), cryogenic propellants (e.g. liquid oxygen and liquid hydrogen), hydrocarbon propellants (e.g., oxygen and ethanol or RP 1), mixed gas propellants, cold gas propellants, and solid propellants.

This element includes engine level through propulsion system level preparation and test operations. Types of testing range from concept demonstration through qualification and acceptance testing. Propulsion tests range from static hot fire testing of up to 90-kilo-Newton (KN) thrust engines at simulated altitude and 270-KN thrust engines at ambient pressure, testing of an entire satellite propulsion system, or testing of a launch vehicle upper stage. The WSTF test specialty (designated by NASA) is systems implementing hypergolic propellants (the various hydrazines and NTO), and vacuum (simulated altitude) testing of non-hypergolic propellant engines below 111 KN.

The Shuttle Fleet Leader Orbital Maneuvering System (OMS), Aft Reaction Control System (ARCS), and Forward Reaction Control System (FRCS) test articles are subjected to hot-fire preparations, hot-fire tests, maintenance operations, and component functional tests that closely simulate mission and NASA Kennedy Space Center (KSC) turnaround activities, maintaining a duty cycle exceeding those of the flight vehicles. This enhances NASA's ability to detect, predict, and prevent OMS and RCS life-dependent failures and anomalies before they affect the Shuttle fleet. Comprehensive test article functional tests that simulate orbiter maintenance downtime period activities are performed every 6-7 firing cycles. The Contractor is also required to conduct special propulsion subsystem tests implementing any one of the Fleet Leader test articles or a stand-alone test system.
Other testing includes:

- AF Minuteman fourth stage aging and surveillance tests
- Next Generation propulsion system tests using alcohol and oxygen propellants.
- Periodic Shuttle APU qualification and fleet lead tests conducted in simulated flight pressure profiles.

All activities include building up the test article, developing and installing the instrumentation and controls, installing the test article in the test cell, conducting cold flow and hot fire tests, and supporting further test article development. Products provided by the Contractor include hardware and software design reviews, actual test hardware and/or test articles, hazard assessments, failure modes and effects analysis (FMEA), design verification, and safety and environmental reviews, and final a test report. Special process training and experiment design may be required for some projects. Test procedures are written and the test system is built and the system is

documented. The test system or test methodology is validated prior to conducting testing. A test readiness review (TRR) or other NASA management readiness review is required before approval is given for testing.

The Contractor shall perform a data review, in concert with NASA, during phased testing where complete evaluation of the data is required prior to the next phase of testing. The data review includes data reduction, analysis, and concurrence to proceed. The customer, prior to subsequent phases of testing, may request preliminary or interim data reports.

Upon the completion of testing, customer feedback shall be obtained and the test article or material shall be shipped or stored. The test system is normally deactivated, decontaminated, disassembled, and the test area brought back to its original configuration. Paperwork is closed out and project summary sheet variance analysis is completed. All project-related design notes, analyses, vendor information, sketches, copies of photographs, and test data are archived in accordance with the WDS.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. IAW DRD 001 Project Reporting	Propulsion System Test Product Process Delivery Order(s)
b.	Perform development or qualification testing on rocket engines or propulsion systems using either liquid or solid propellant.	Delivery Order(s) Propulsion System Test Product Process
c.	Maintain a firing cycle lead over flight hardware for the fleet leader project as defined in the DO.	Delivery Order(s) Propulsion System Test Product Process
d.	Conduct special propulsion subsystem tests on any one of the Fleet Leader test articles, or in a stand-alone test system.	Delivery Order(s) Propulsion System Test Product Process
e.	Maintain test article configuration. Configuration tracking includes documenting number of test article tank cycles and valve cycles, documenting test article discrepancies, and	Delivery Order(s) WSI 5-SW-0011

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	maintaining an up-to-date list identifying test article instrumentation and components.	
f.	Maintain familiarity with the OMS, RCS, and APU sections of the current revision of the Orbiter Maintenance Requirements and Specifications Document to accommodate potential process/hardware changes or investigations. Provide input to the NASA PM on issues such as system and process improvement, component performance evaluation, component failure analysis, and system and component repair. Support developing or qualifying a modification to hardware or procedures and anomaly investigations.	Delivery Order(s) Propulsion System Test Product Process

4.2 Related Test Projects

The Contractor shall conduct testing and analysis of flight and ground support equipment components for functionality and fluid compatibility, including anomaly analysis, development, qualification, and acceptance testing. Projects included in this SOW include test system development, test method development, special process development, system and component development, qualification, and acceptance testing of components or sub-systems, material selection and propellant fluid hazards analysis, flight hardware and Type I Ground Support Equipment (GSE) development, failure analysis and anomaly investigation, propulsion expertise, and flight support.

Also, the Contractor shall operate several altitude simulation systems located in the 300 and 400 propulsion test areas. These systems are maintained in a ready to operate state and operated in support of the various test projects as required.

The Contractor shall maintain the propellant handling expertise to support operations at remote launch facilities, and supports KSC in systems level troubleshooting and development. WSTF is also called upon to develop special servicing tools or procedures to be applied to flight systems.

The Contractor shall design, fabricate, develop, test, qualify, and certify flight hardware and Type 1 GSE in support of major NASA programs such as Space Shuttle and International Space Station (ISS), and other WSTF customers. These products are provided in accordance with Agency requirements and Customer Agreements.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. IAW DRD 001 Project Reporting	Propulsion System Test Product Process Delivery Order(s)
b.	Conduct off site or remote customer flight operations requirements. Support the design of flight or GSE hardware, fabrication of hardware, design or construction of flight support facilities including launch or landing facilities, propellant handling at remote facilities, and flight vehicle servicing	Delivery Order(s) Propulsion System Test Product Process
c.	Provide hypergolic propellant expertise for WSTF customers. Support the development and conduct of aerospace fluid and propellant handling training classes for customers or customer interfaces.	Delivery Order(s) Propulsion System Test Product Process
d.	Support off site or remote customer test operations requirements. Analytically model, design, construct, install, and validate special test systems for conducting experiments at customer defined locations	Delivery Order(s) Propulsion System Test Product Process
e.	Provide prototype engineering development testing expertise for WSTF customers. Support engineering development testing of prototypes to qualification, acceptance, and	Delivery Order(s) Propulsion System Test Product Process

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	life cycle testing, including off-limit and destructive testing.	
f.	Perform the flight hardware development phase activities. Research the applicable program specifications, complete mechanical and electrical designs, perform appropriate hazards analyses, and provide development hardware.	Delivery Order(s) Propulsion System Test Product Process
g.	Support Preliminary and Critical Design Reviews. Prepare and present complete documentation packages including development drawings in a customer-specified format, detailed manufacturing, assembly, and test instructions, material certifications and procurement information, and design calculations and analyses.	Delivery Order(s) Propulsion System Test Product Process
h.	Perform the test phase of flight hardware development project activities. Prepare detailed test plans and procedures, ensure that applicable test system meets program-specific flight hardware interface requirements, and conduct tests, analyze data, and report data.	Delivery Order(s) Propulsion System Test Product Process
i.	Ensure that all personnel (contractors and government) are trained and certified to perform work associated with the scope of this section.	WSP 18-0001 Customer agreements
j.	Manufacture flight and qualification hardware and perform qualification. Develop detailed qualification test plans and procedures, ensure	Delivery Order(s) Propulsion System Test Product Process NASA Program Standards and Customer Agreements

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	that all program requirements are met, prepare complete hardware qualification, certification, and acceptance data packages per program standards and customer requirements, and provide hardware and data.	

4.3 System Maintenance and Repair

Preventative maintenance shall be performed on a non-interference basis, which may lead to after normal hours or weekend scheduling. Maintenance tasks may require shift work or extended workweek operations as workloads fluctuate. Systems to be maintained are listed in Table A below.

Preventative maintenance is defined as the recurring day-to-day work necessary to preserve the test systems and equipment in such a condition that they may be used for their designated purpose over an intended service life.

Operations are defined as the work associated with operating test systems and equipment and includes such activities as:

- Starting up and shutting down of equipment such as data systems and cryo pumps
- Off loading of vendor-supplied fluids and gasses which are delivered to WSTF
- Maintaining hypergolic and other propellants, propane, boiler fuel, and other consumable liquids in the various areas to support projects
- Maintaining minimum pressures and quality on the nitrogen, helium, and breathing air systems
- Maintaining certifications on Pressure Vessels and Pressurized Systems (PV/S)
- Checking functionality of safety systems such as emergency showers and eye washes, and fire detection and suppression systems.

Repair is defined as the work required on test systems and equipment to return it to a condition necessary to perform its designated purpose.

Table A. Systems and Facilities to be Maintained

DESCRIPTION	LOCATION
300 Area Fuel Storage and Distribution System	300
300 Area Oxidizer Storage and Distribution System	300
300 Area Small Altitude Simulation System	300
Test Stand 301	300

DESCRIPTION	LOCATION
Test Stand 302	300
Test Stand 303	300
Test Stand 328	300
300 Helium Storage and Distribution System	300
400 Area Fuel Storage and Distribution System	400
400 Area Oxidizer Storage and Distribution System	400
400 Small Altitude Simulation System	400
Large Altitude Simulation System	400
Stand Support Building 416	400
Test Stand 401	400
Test Stand 402	400
Test Stand 403	400
Test Stand 405	400
Test Stand 406	400
LN2/GN2 Storage and Distribution System	200, 300, 400, 500
Breathing Air Storage and Distribution System	300, 400, 500
400 Helium Storage and Distribution System	400, 500

Repairs estimated to cost less than $2500 per repair are considered to be "routine repairs" or "minor repairs". In the event that repairs are estimated to cost more than $2500, the Contractor shall notify the Government so that these repairs can be considered delivered services as described in Section 4.2, Related Test Projects.

The Contractor shall support manned space flight operations and critical customer test schedules. The test systems supporting these activities must be maintained in a high state of readiness and reliability. System down time during a critical flight operating or test schedule period is not acceptable.

In order to meet customer requirements within the resources that are allotted the Contractor shall maintain facilities and test systems in three readiness categories.

Ready – Maintenance provided so that the system or capability is immediately available for use for the intended function

Productive Standby – Limited maintenance provided to the system or capability, minimal effort required to bring to ready status (3-4 weeks)

Deactivated – Minimal maintenance provided to the system or capability to protect assets, substantial effort required to bring to ready status (1-3 months)

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Perform scheduled refurbishment, overhaul of systems and equipment, and replacement	OEM Specifications WSP 11-0001

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	of assemblies to minimize the impact on WSTF test projects. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report Critical system maintenance down periods will be negotiated with the Government before they occur.	No more than four test operations per year will be delayed due to maintenance operations. Each delay will be less than one 9-hour shift. No Critical system maintenance down periods shall be acceptable without prior notification.
b.	Generate repair procedures, procure parts, perform the repair, and document the work performed, including verification of the repair. Minimize the impact to projects and other facility operations. Maintain spares for rapid resumption of testing.	OEM Specifications Delivery Order(s)
c.	Generate and maintain work instructions for routine or repetitive maintenance and operations tasks in order to ensure that tasks are repeatable and to improve cost effectiveness.	WSP 9-0001 WSI 05-SW-0004

4.4 System/Facility Upgrades

WSTF facilities (shown in Table A) and capabilities often need to be upgraded, modified, or specialized to support a specific project or extend a capability. The Contractor shall perform test system development encompassing design, development, fabrication, and modification of mechanical, data acquisition, and control systems. This activity requires more than routine maintenance or sustaining of capability and range in scope from laboratory-scale to large-scale field systems.

The Contractor shall support a wide range of system development. The complexity of these types of projects can be as simple as modifying an existing system to accommodate a new test requirement, or as complex as designing and building a system from the ground up. All facility modifications and construction will rely on the close coordination and cooperation of the TEC and the FOSC contractors for both

5.1 Materials and Components Test Projects

The Contractor shall perform materials and component testing projects using standard processes or as discrete projects using unique processes. Standard Processes are well established, defined and documented processes. Standard processes include:

- Testing to evaluate flammability, odor, offgassing, and compatibility of materials and components in accordance with NASA Standard 6001 and other applicable industry consensus standards.
- Testing to evaluate toxic hazards to personnel from offgassing from materials used on submarines per TP-WSTF-629.
- Hypervelocity impact testing to evaluate hazards of low-Earth orbit meteoroid and orbital debris environments to spacecraft hardware per TP-WSTF-922. Test articles include shields, stored energy systems, aerospace fluid systems, materials, and components.
- Chemistry and metallurgy testing and analysis in accordance with current NASA-approved procedures and American Society of Testing and Materials (ASTM), military specifications, Environmental Protection Agency (EPA), National Institute of Occupational Safety & Health (NIOSH), and other methodologies as appropriate.
- For the standard processes listed above, additional laboratory quality assurance functions are required as describe in WJI LQUALITY-0192 (Laboratory Quality Assurance) and WJI LQUALITY-0201 (Good Laboratory Practices). These activities are performed independently of activities specified in Section 3.5 of the SOW and are specific requirements to IDIQ tasks.
- Performance of oxygen and hydrogen component and system hazards analyses as described in NASA TM-104823 (oxygen) or NASA TM-2003-212059 (hydrogen).

Materials and component test projects vary widely in both content and scope but in general fall into the following technical areas:

- Testing and analysis of propellants or other hazardous fluids to define ignition and combustion properties
- Testing of materials and components to determine compatibility testing with aerospace fluids to enhance safe use.
- Testing of components to determine life cycle issues to include acceptance testing and qualification testing of flight hardware.
- Design and development of flight components.
- Testing of low velocity and hypervelocity impact effects on spacecraft structures.
- Development of new and improved safety guides and standards for oxygen, hydrogen, and other propellants.
- Development and instruction of courses related to propellant safety.
- Test development activities in support of standard processes.

The Contractor shall conduct materials and component testing in support of a variety of customers including NASA programs, DOD, other government agencies, and private industry. WSTF is considered an industry leader in materials and component testing and directly supports NASA programs. The results of WSTF test and analysis activities are published within NASA and in external forums. WSTF Contractor personnel shall be active participants in the technical community and actively participate on consensus standards committees (ASTM, American Institute of Aeronautics and Astronautics [AIAA], Joint Army, Navy, NASA, and Air Force [JANNAF], et al.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. IAW DRD 001 Project Reporting	WSP 09-0014 Delivery Order(s)
b.	Perform Test and Operations on materials and components to meet customer's requirements.	Components Fluid and Material Testing Product Process Hazard Analysis Product Process Research and Development Product Process Standard Testing Product Process Training, Development, and Education Product Process Delivery Order(s)

5.2 Related Test Projects

The Contractor shall be required to develop and implement standard or consensus (ASTM, MIL SPEC, etc.) test methodology new to WSTF, as well as design special test methods to meet customer requirements. Methods developed include material compatibility, propellant characterization, and space simulation studies.

The Contractor shall design, fabricate, develop, test, qualify, and certify flight hardware and Type 1 GSE in support of major NASA programs such as Space Shuttle and International Space Station (ISS), and other WSTF customers. These products are provided in accordance with Agency requirements and Customer Agreements.

The Contractor is required to maintain unique and WSTF developed expertise in the areas of hypergolic propellant hazards, oxygen hazards, hydrogen hazards, composite overwrapped pressure vessels (COPV) test and analysis. The Contractor is required to develop, revise, maintain, and instruct the contents of these courses.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. IAW DRD 001 Project Reporting	WSP 09-0014 Delivery Order(s)
b.	Perform Test and Operations on materials and components to meet customer's requirements.	Delivery Order(s) Components Fluid and Material Testing Product Process Hazard Analysis Product Process Research and Development Product Process Standard Testing Product Process
c.	Perform the flight hardware development phase activities. Research the applicable program specifications, complete mechanical and electrical designs, perform appropriate hazards analyses, and provide development hardware.	Delivery Order(s) Components Fluid and Material Testing Product Process Hazard Analysis Product Process Research and Development Product Process Standard Testing Product Process
d.	Support Preliminary and Critical Design Reviews. Prepare and present complete documentation packages including development drawings in a customer-specified format, detailed manufacturing, assembly, and test instructions, material certifications and procurement information, and design calculations and analyses.	Delivery Order(s) Components Fluid and Material Testing Product Process Hazard Analysis Product Process Research and Development Product Process Standard Testing Product Process Training, Development, and Education Product Process
e.	Perform the test phase of flight hardware development project activities. Prepare detailed test plans and procedures, ensure that applicable test system meets program-specific flight hardware interface requirements, and conduct tests, analyze data, and report	Delivery Order(s) Components Fluid and Material Testing Product Process Hazard Analysis Product Process

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	data.	
f.	Manufacture flight and qualification hardware and perform qualification. Develop detailed qualification test plans and procedures, ensure that all program requirements are met, prepare complete hardware qualification, certification, and acceptance data packages per program standards and customer requirements, and provide hardware and data.	Delivery Order(s) WSI 09-SW-0014 General Flight Hardware Manufacturing Requirements

5.3 System Maintenance and Repair

The Contractor shall perform materials and component testing using a variety of test systems which vary in both size and complexity from simple data analysis systems to full facilities. It is critical to the success of WSTF projects that required facilities, test systems, and information management systems are available and maintained in various states of readiness. The major information management system is the Material and Components Test (MCT) information management system to assure operation, backup, maintenance of reports, screens, and files as described in RD-WSTF-0018, "MCT Users Manual" and RD-WSTF-0019, "Systems Operations Manual."

The Contractor shall utilize critical facilities and test hardware in the conduct of materials and component test and analysis. In many cases facilities and test systems at WSTF are unique with-in NASA, government, and private industry. The availability of these resources is critical to accomplishing WSTF's and the Agency's mission. In addition, since WSTF conducts testing of hazardous fluids systems, maintenance and repair is essential to personnel safety. In order to meet customer requirements within the resources that are allotted the Contractor shall maintain facilities and test systems (See Table B below) in three readiness categories.

Ready – Maintenance provided so that the system or capability is immediately available for use for the intended function

Productive Standby – Limited maintenance provided to the system or capability, minimal effort required to bring to ready status (1 week)

Deactivated – Minimal maintenance provided to the system or capability to protect assets, substantial effort required to bring to ready status (1-3 months)

Table B Systems and Facilities to be Maintained

DESCRIPTION	LOCATION
South High Bay Facility	200
250, 800, 700 Area	
250 AREA LOX/GOX Storage System	250 Area
Facility GOX, NG System, Heat Exchanger - 250	250 Area
Flowing Promoted Combustion Test System	250 Area
H2 TUBE TRAILER T-101(6000 PSIG)	250 Area
H2 TUBE TRAILER T-106 (6000 PSIG)	250 Area
H2 TUBE TRAILER T-144 (6000 PSIG)	250 Area
HELIUM SUPPLY 250 H2 SYSTEM	250 Area
High Flow Gaseous Hydrogen Test System	250 Area
Hydrogen Dewar And Recharger System	250 Area
Hydrogen Storage & Test Facility (250 Area)	250 Area
Liquid Hydrogen Recirculation Pump Test System	250 Area
MICRO-GRAVITY TEST SYSTEM #2	250 Area
Oxygen Storage and Test Facility (250 Area)	250 Area
Sub-Sonic Particle Impact Testing Fixture	250 Area
Super-Sonic Particle Impact Test Fixture	250 Area
COPV Long Term Storage Test System	270 Area and Building 270A
700 Area Tower	700 Area
High Energy Blast Facility	700 Area
02/N2 MIXING SYSTEM	800 Area
150 GALLON MOBILE LOX DEWAR T-151	800 Area
300 GALLON MOBILE LN2 DEWAR T-130	800 Area
800 GN2 SUPPLY, (HPF,HFF,CSA)	800 Area
800 GOX DISTRIBUTION SYSTEM	800 Area
Adiabatic Compression Test System - Cell 839	800 Area
AIT TEST SYSTEM (cart mounted)	800 Area
APU TANK TEST SYSTEM	800 Area
Bldg 802 - Mechanical and Electrical Fab Shop	800 Area
Bldg 804	800 Area
CELL 113, ARPCS-CONTROL PANEL	800 Area
Cone Calorimeter Facility	800 Area
Cone Calorimeter Gas Supply	800 Area
EMU ARC TEST SYSTEM CELL 131	800 Area
Facility Breathing Air System-HFTA	800 Area
Flammability Test System Cell 108	800 Area
Friction Rubbing Test System C-111	800 Area
FUEL ASPIRATOR SYSTEM - T-268	800 Area
FUEL IMMERSION TEST SYSTEM - C-841	800 Area
GN2 Powered Fuel Waste Water SYS #1	800 Area
GOX Index Test System	800 Area

DESCRIPTION	LOCATION
GOX Tube Trailer T-173 (10000 PSIG)	800 Area
Hazardous Fluids Test Area	800 Area
Hazardous Fluids Test Area FIREX System	800 Area
HFTA HELIUM DIST. SYSTEM-HFTA	800 Area
Hydraulic Pump Burst/Cycle Test System	800 Area TC860
High Pressure Test Area	800 Area
High Pressure Test Area FIREX	800 Area
HI-PRESS GOX FLOW TEST SYST C-110	800 Area
Hydrazine Decomposition Test System - Cell 839	800 Area
Hypergol Component Testing (Oxidizer) Cell 837	800 Area
IAPU TEST SYSTEM CELL 844/FUEL	800 Area
K-BOTTLE SYSTEM, HPTA	800 Area
LASER COMBUSTION TEST - TEST CELL 834	800 Area
Low Pressure Lab	800 Area
LOX DEWAR & RECHARGER SYSTEM	800 Area
Materials Prep Lab - Bonded Storage (bldg 803)	800 Area
MECH. IMPACT TEST SYS, GOX C-104	800 Area
MITS TEST - LOX / GOX (cell 105)	800 Area
MMH Fuel Storage System - HFTA	800 Area
N204 Immersion Test SYS., CELL 833	800 Area
OXID-Propane / Drain Burner SYS	800 Area
PARR CALORIMETER	800 Area
Pneumatic And Component Test C-107	800 Area
Portable, Inert Gas, Intensifier Cart	800 Area
Promoted Ignition Test SYS,C-832	800 Area
T-246 500 GALLON LOX DEWAR	800 Area
T-254 BREATHING AIR TRAILER	800 Area
Upward Flame Propagation - Cell 101	800 Area
Upward Propagation Rate Test System	800 Area
INERT GAS SUPPLY; Glove Box	800 Area
INERT GAS SUPPLY CELL 861	800 Area
Check Valve Leak Check Apparatus	800 Area
HFTA FUEL DRAIN MAINT SYSTEM	800 Area
PORTABLE WASTE PUMP SYSTEM#2	800 Area
CELL 860, INERT GAS SUPPLIES	800 Area
Portable Leak Check Apparatus	800 Area
Inert Gas Supply Cell 839	800 Area
Mechanical Impact Test Chambers	800 Area
Cylinders (K-BOTTLES) WSTF Owned	800 Area
4-Bolt Immersion Test Chamber	800 Area
T/C843 Helium Leak Check Panel	800 Area
LN2 PORTABLE DEWARS; T-263	800 Area
FLASH X-RAY GN2	800 Area
GASEOUS NITROGEN SUPPLY FOR 803 BLD	800 Area

DESCRIPTION	LOCATION
PRCS FUEL VALVE EXTRUSION-C-835	800 Area
Hypervelocity and Low Velocity	
Low Velocity Launcher- BLG 270	Building 270
Low Velocity Test Facility	Building 270
Walk-in Freezer	Building 270
T-270A/COPV Stress Rupture Testing	Building 270A
T-275A/COPV Sustained load testing	Building 270A
.17 Caliber Gun Range	Building 272
.30/.17 Caliber Gun Range	Building 272
.50 Caliber Gun Range	Building 272
1-inch (1.00 Caliber) Gun Range	Building 272
Breathing Air Supply, 272	Building 272
Hypervelocity Impact Test Facility	Building 272
Chemistry Laboratory	
Optics Lab	Chemistry Laboratory
T-115, LN2 Dewar Supply, 4000 GAL	Chemistry Laboratory
Fuel Rated Hoke Sample Bottles	Chemistry Laboratory
GAS SAMPLE BOTTLES	Chemistry Laboratory
Liquid Nitrogen Dewars - 11 EACH	Chemistry Laboratory
Oxidizer Rated Hoke Sample Bottles	Chemistry Laboratory
HE Supply to HP 5890 G.C. WATER LAB	Chemistry Laboratory
Water Lab G.C. Hydrogen System	Chemistry Laboratory
Water Lab G.C. Helium System	Chemistry Laboratory
Offgassing Laboratory Bonded Storage Room	Building 203
MDAL H.P. 5890 GC	Chemistry Laboratory
Analytical Chemistry Laboratory	Chemistry Laboratory
Cosmodyne Cryogenic Samp Containers	Chemistry Laboratory
Hydrogen Distribution System	Chemistry Laboratory
Hypergolic Fuel Lab	Chemistry Laboratory
Hypergolic Oxidizer Lab	Chemistry Laboratory
Hypergolic Propellant Vapor Lab	Chemistry Laboratory
Instron Universal Test Machine	Chemistry Laboratory
MDAL Hydrogen DIST. System	Chemistry Laboratory
Metallurgical Laboratory	Chemistry Laboratory
Self Heated Chamber	Chemistry Laboratory
Space Environment Simulation Lab	Chemistry Laboratory
High Energy X-ray Laboratory	Chemistry Laboratory
Low Energy X-ray Laboratory	Chemistry Laboratory
Materials Laboratory	Chemistry Laboratory
Surface Analysis Laboratory	Chemistry Laboratory
IPOV Vibration Water Test Portable	Portable- 800 IPOV
T-270 POV FLOW TEST TRAILER	Portable- 800 IPOV
Hypervelocity Barrel Fabrication System	South High Bay200

DESCRIPTION	LOCATION
COPV-Sustained Load Test System	T-275A

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Generate repair procedures, procure parts, perform the repair, and document the work performed, including verification of the repair.	Delivery Order(s) WSTF-RD-0042-001-05 WJI 800 HPF Series WJI 800 HFF Series WJI 250-0002 through 0005 WJI CHEMLAB Series WJI CHAMBLAB Series WJI LENVIRON Series WJI METLAB Series WJI LQUALITY-0192 and 0201 WSTF-RD-0004
b.	Generate and maintain work instructions for routine or repetitive maintenance and operations tasks in order to ensure that tasks are repeatable and to improve cost effectiveness.	Delivery Order(s) WSTF-RD-0042-001-05 WJI 800 HPF Series WJI 800 HFF Series WJI 250-0002 through 0005 WJI CHEMLAB Series WJI CHAMBLAB Series WJI LENVIRON Series WJI METLAB Series WJI LQUALITY-0192 and 0201 WSTF-RD-0004
c.	Perform maintenance and repair on facility infrastructure and test systems in order to accomplish materials and component tests. Maintain system and instrumentation calibration. Ensure that Analytical Instrumentation systems are maintained and repaired. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report	Delivery Order(s) WSTF-RD-0042-001-05 WJI 800 HPF Series WJI 800 HFF Series WJI 250-0002 through 0005 WJI CHEMLAB Series WJI CHAMBLAB Series WJI LENVIRON Series WJI METLAB Series WJI LQUALITY-0192 and 0201 WSTF-RD-0004

5.4 System/Facility Upgrades

The Contractor shall upgrade, modify, or customize materials and component test systems and facilities (shown in Table B) in order to support a specific project, extend a capability, or due to antiquation. These activities encompass design, development, fabrication, and modification of mechanical, data acquisition, and control systems, which require more than routine maintenance or sustaining of capability.

The Contractor shall maintain the ability to support a wide range of system development upgrades. The complexity of these types of projects can be as simple as modifying an existing system to accommodate a new test requirement, or as complex as designing and building a system from the ground up. The Contractor shall deliver functional systems with complete documentation of the system and its capabilities. Some activities such as test system upgrades, major repairs, new capability development, or new concepts of operation are initiated as projects and result in new Standard Processes.

All facility modifications and construction will rely on the close coordination and cooperation of the TEC and the FOSC contractors for both definition of requirements and services.
Examples of system and facility upgrades include:

- Hypergolic Fluids Laboratory
- 800 Area propellant supply system
- Liquid Hydrogen Recirculation Pump Test System
- Chemistry laboratory instrumentation
- Data acquisition systems
- Two-stage light gas gun systems

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Provide expertise to develop test systems. Test systems operating in the following environments include: • Media: Aerospace fluids such as hydrogen, oxygen, inert gases and air, cryogenics (liquid oxygen, nitrogen, and hydrogen), hydrazine, MMH, UDMH, ammonia, ethanol, and nitrogen tetroxide • Control Function: Manual, semi-automated or automated	Delivery Order(s) Research and Development Product Process

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	control • Data Collection: Single data points to 100,000,000 samples per second	
b.	Fabricate and commission test systems with the required instrumentation, data acquisition and control systems, and the requisite supporting software.	Delivery Order(s) Research and Development Product Process
c.	Design, buildup, and implement maintenance capabilities to support specific requirements.	Delivery Order(s) Research and Development Product Process
d.	Develop WSTF applicable procedures and standardize the resulting processes.	Delivery Order(s) Research and Development Product Process

6.0 Depot

The Depot operations function is responsible for performing preventative maintenance, refurbishment, repair, and acceptance testing of Space Shuttle and ISS flight hardware. It is critical that program level certification be maintained uninterrupted for the Depot processes performed at WSTF. The expertise, capabilities, and the specialization of the WSTF facilities results in additional projects related to the work that the Depot is certified to perform, such as designing and fabricating thruster mockups, fabricating flight piece parts that no longer have original equipment manufacturers (OEM), performing failure analysis, and analyzing certified operations for process improvements.

NASA has transitioned and continues to transition, when practical, the responsibility and capability for maintenance, overhaul, repair, and in some cases fabrication of numerous Space Shuttle and ISS components from the OEM's to various Depot facilities in support of NASA Logistics needs.

The Depot operations function is divided into the following four project categories:

- Flight Hardware Refurbishment and Repair Projects
- Related Projects
- System Maintenance and Repair
- System/Facility Upgrades

Each of these project categories is described in the following sections.

Requirements under this element are IDIQ.

6.1 Flight Hardware Refurbishment and Repair Projects

The Contractor shall refurbish and repair the Space Shuttle and ISS components listed below. The Depot is currently certified to work on the following Space Shuttle hardware:

- Primary Reaction Control System (PRCS) thrusters,
- PRCS pilot operated valves,
- Vernier Reaction Control System (VRCS) thrusters,
- VRCS direct acting valves,
- Orbital Maneuvering System (OMS)/RCS quad check valve,
- OMS engine,
- OMS engine series valve,
- OMS/RCS manual valve,
- OMS/RCS burst disk/relief valve,
- OMS/RCS AC motor valve,
- Space Shuttle Main Engine (SSME) hydrogen flow control valve,
- Atmospheric and Revitalization Pressurization Control System (ARPCS) control and supply panels.

The Depot is certified to work on the following ISS hardware:

- Oxygen Recharge Compressor Assembly
- Respiratory Support Pack

Space Shuttle and ISS Hardware currently being transitioned to the Depot include Shuttle Main Propulsion System (MPS) Liquid Hydrogen Recirculation Pump (cryogenic acceptance testing only), Shuttle OMS Future Craft components repair and acceptance testing, ISS Portable Breathing Apparatus and ISS Pre-Breath Hose Assembly refurbishment, repair and acceptance testing.

The Contractor shall develop component processing procedures using the Intermediate Depot Maintenance Requirements Documents (IDMRD) as a guide during the transition phase. The flight component preventive maintenance, refurbishment, repair, and acceptance test requirements are developed by the Space Shuttle Program, and formally documented in IDMRD. The IDMRD describes each component the Depot is certified to process. Following this phase, the procedures are approved by the NASA PM and the customer as standard processes. Prior to approval of WSTF as the certified repair agency for a specific piece of flight hardware, the Shuttle Program will review the procedures, facilities, test equipment and systems, personnel training and qualifications, and other institutional processes.

The Contractor shall deliver Flight Hardware with an Acceptance Data Package (ADP) to NASA Shuttle Program Logistics for future use. Flight hardware requires Depot processing either for scheduled preventative maintenance, for refurbishment, or for repair due to a failure. This work is conducted in accordance with MSM process "Component Refurbishment."

Each fiscal year, the Depot and NASA Shuttle Program Logistics negotiate the planned repair mix for a given fiscal year. These scheduling requirements and hardware repair mixes are reflected in the individual DOs.

The acceptance test requirements for ISS components are developed by the OEM and delivered to the ISS Program. These requirements are documented in individual hardware acceptance test procedures (ATP) stored in JSC's EDMS. Refurbishment, overhaul and repair requirements are developed by the OEM, the Subsystem Manager and the Hardware Manager. These requirements are then documented as part of the hardware certification in SSP 50276.

The Contractor shall perform ISS Program Depot Repair activities consistent with the scope, approach, and complexity of the Space Shuttle requirements discussed above. NASA ISS Program Logistics authorizes the Depot work via a Maintenance Action Request (MAR) on an as required basis.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Perform refurbishment, repair, and acceptance testing for Space Shuttle hardware. Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. Report Project/Process Status. IAW DRD 001 Project Reporting	Space Shuttle Repair Mix Component Refurbishment Product Process Delivery Order(s)
b.	All personnel must be certified to perform work on flight hardware per the process, with the exception of on the job training.	Component Refurbishment Product Process
c.	Perform refurbishment, repair, and acceptance testing for ISS hardware Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. Report Project/Process Status. IAW DRD 001 Project/Process Reporting	Component Refurbishment Product Process Delivery Order(s) Maintenance Action Requests (MARs)

6.2 Related Projects

The Contractor shall perform a range of related projects including failure analysis, flight anomaly support, flight hardware piece part fabrication, new hardware certification, and ground support equipment development.

Examples of this work include:

- Confirming an anomaly such as leakage prior to thruster installation
- Troubleshooting anomalous behavior such as thrusters that are deselected during flight.
- Serving as an alternate production facility for several OMS engine piece parts for which the OEM is no longer available
- Developing the process for becoming authorized to produce additional parts

Since it was established, the WSTF Depot has expanded the number of certified hardware refurbishment, repair and acceptance testing processes and expects to continue increasing the number of these certified processes.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. Report Project/Process Status. IAW DRD 001 Project Reporting	Component Refurbishment Product Process Delivery Order(s)
b.	Perform related project work to meet customer requirements. Ensure this work is scheduled to avoid delaying critical hardware priorities.	Component Refurbishment Product Process Delivery Order(s)

6.3 System Maintenance and Repair

The Contractor shall perform system maintenance and repair on a variety of facility test equipment and systems (See Table C below). Because of the Depot certifications, the test systems and equipment are controlled via the Shuttle and ISS Programs certified processes and procedures. The availability of the equipment and systems is essential to the Depot Operations. The readiness of particular test systems and equipment is managed based on the scheduled hardware work. Specific hardware and system readiness is documented in individual DOs.

The Contractor shall complete preventive maintenance, minor repairs, minor modifications, maintain spares, and perform general operational support required to

keep the Depot facilities operational. This task also includes maintenance of system and hardware documentation such as test processes, procedures, and hardware data for all maintenance and repairs.

Table C Systems and Facilities to be Maintained

Description	Location
Component Test Facility Orbital Maneuvering System	North High Bay
Component Test Facility Parker Valve	North High Bay
Component Test Facility Primary and Vernier RCS	North High Bay
Component Test Facility Quad-Check Valve	North High Bay
Component Test Facility Oxygen Recharge Compressor Assembly	North High Bay
Depot Bonded Storage Room	Building 200

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Perform scheduled refurbishment, overhaul of systems and equipment, and replacement of assemblies in accordance with the schedule established and documented in the associated computerized maintenance management and scheduling systems. IAW DRD 004 Monthly Maintenance Report	Delivery Order(s) WSI PROP-0020

6.4 System/Facility Upgrades

The Contractor shall perform system and facility upgrades (Systems shown in Table C) in response to process improvements, or the implementation of new test/repair capabilities. Specific work requirements are documented in DOs along with cost, schedule, and performance evaluation requirements. This project work usually increases the Depot's capabilities of flight hardware processing. More of these capability enhancing projects are anticipated as the WSTF Depot continues to increase the number of certified hardware processes. All facility modifications and construction will rely on the close coordination and cooperation of the TEC and the FOSC contractors for both definition of requirements and services.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Perform project work to meet customer requirements. Ensure this work is scheduled to avoid delaying critical hardware priorities.	Propulsion System Test Product Process Delivery Order(s)
b.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. Report Project/Process Status. IAW DRD 001 Project Reporting	Propulsion System Test Product Process Delivery Order(s)

7.0 Technical Service Centers

To enable successful completion of the ID/IQ projects (Sections 4.0, 5.0, and 6.0) and processes, technical services are required to be available, either on-site or off-site. These services are also available to other customers, including off-site customers and FOSC. WSTF currently operates these technical services in a full-cost environment such that all costs associated with providing a support function capability which provides services to the ordered projects and processes are paid for by the projects and processes that utilize them. These technical service centers are currently available on site, primarily because of the need to respond quickly to the needs of the projects and processes or because these services have not historically been available in the local area.

Requirements under this element are IDIQ.

7.1 Technical Editing

The Contractor shall provide technical editing services primarily for publishing reports, conference papers, presentations, bulletins, brochures, and electronic media. The Contractor shall also provide duplication services, electronic scanning of documentation, and archival of records as described by NASA requirements. Technical editors must work closely with the project personnel throughout the life cycle of the project. Project reporting requirements are defined in Delivery Order(s). These reports are required at the end of projects when results have been attained and are often required to be completed quickly and efficiently. The Contractor will transmit products generated to the Technical Library (part of the FOSC) for archiving purposes and for future retrieval.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Supply technical editing, publishing, and transmittal of scientific and technical information.	Delivery Order(s) Work Order(s)
b	Transfer completed products to the Technical Library as they are produced.	Delivery Order(s) Work Order(s) Transfer to library as raw format and searchable electronic media within 3 working days of completion of product.
c.	Perform maintenance and repair on facility infrastructure. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report	Delivery Order(s)

7.2 Photo and Video

The Contractor shall maintain full-service photography and video facilities for still picture, motion picture, video production, and video instrumentation. The Contractor shall provide Photo and Video imaging functions that include producing still photographic prints, motion picture, transparencies, and video productions. Services shall be available in-house and in field environments, including hazardous areas requiring use of personal protective equipment. The Contractor shall also operate the NASA/WSTF Video Teleconference System (ViTS).

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Process, develop, edit, and produce black & white and color photographic prints, negatives, positives, slides, viewgraphs, digital images, and videos.	Delivery Order(s) Work Order(s) Photo Lab/Motion Picture/Video Infrastructure Process
b.	Obtain photographs and video images in laboratories and at remote WSTF facilities in support of events such as engine firings, tests, documentaries, and quality control inspections.	Delivery Order(s) Work Order(s) Photo Lab/Motion Picture/Video Infrastructure Process

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
c.	Maintain Photo and Video equipment.	OEM Specifications Photo Lab/Motion Picture/Video Infrastructure Process
d.	Maintain several existing ACCESS databases which contain information on all still photographs, videos, and other photo related work done at WSTF. The databases are used to quickly find photos and videos required by customers for reports, investigations, ongoing R&D work, and other activities. Databases must be kept current.	Photo Lab/Motion Picture/Video Infrastructure Process Update weekly.
e.	Produce orthochromatic film for overlays, ScotchCals, and printed circuit board layouts.	Delivery Order(s) Work Order(s) Photo Lab/Motion Picture/Video Infrastructure Process
f.	Operate the WSTF NASA ViTS conference room and coordinate video teleconferences.	Photo Lab/Motion Picture/Video Infrastructure Process Availability to operate ViTS 95% of time.
g.	Perform borescopic photography and video imaging; nonvisible spectrum photography, and infrared video imaging; pulse (time-lapse), real-time, and high-speed cinematic imaging; and high-speed and fast-shutter video imaging.	Delivery Order(s) Work Order(s) Photo Lab/Motion Picture/Video Infrastructure Process
h.	Provide graphic art, slide, magnification/reduction, color duplication services, and graphic presentation services.	Delivery Order(s) Work Order(s) Photo Lab/Motion Picture/Video Infrastructure Process
i.	Perform maintenance and repair on facility infrastructure. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report	Photo Lab/Motion Picture/Video Infrastructure Process

7.3 Electronic and A/V Systems M&O

The Contractor shall plan, assemble, and maintain public announcement systems, surveillance camera systems, and the NASA Select television systems in site conference rooms. Additionally the Contractor shall fabricate, maintain, repair, and replace electronic equipment for use in a variety of aerospace and special application systems as required. The Contractor shall maintain an electronic and A/V service to provide and repair small scale equipment.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Operate the WSTF NASA Select satellite television receiving and signal distribution systems.	Operational 95% of workday
b.	Repair or replace A/V systems and fabricate printed circuit boards.	Delivery Order(s) Work Order(s) OEM Specifications
c.	Fabricate control panels and overlays for test control panels using screen print and ScotchCal techniques.	Delivery Order(s) Work Order(s)
d.	Maintain the WSTF public announcement systems, surveillance camera systems and conference room audio and presentation systems.	Delivery Order(s) Work Order(s)
e.	Perform maintenance and repair on facility infrastructure. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report	OEM Specifications

7.4 Calibration

The Contractor shall calibrate and maintain Inspection, Measuring, and Testing Equipment (IMTE) in accordance with NASA Policy Directive 8730.1, "Metrology and Calibration." IMTE includes all test and measuring equipment and safety instruments associated with the following functions:

- Acceptance testing (determining that a part, component, or system meets specifications)
- Inspection, maintenance, or calibration
- Flight hardware qualification

- Measurement of processes where test equipment accuracy is essential for the safety of personnel or the public
- Telecommunication, transmission, and test equipment where exact signal interfaces and circuit confirmations are essential to mission success
- Development, testing, and special applications where the specifications, end products, or data are accuracy sensitive, including instruments used in hazardous and critical applications
- Other equipment as negotiated through delivery order

IMTE measurements include, but are not limited to, force, pressure, vacuum, torque, gas flow rate, liquid flow rate, temperature, humidity, length, flatness, mass, angularity, DC Voltage, AC Voltage, resistance, DC Current, AC Current, capacitance, inductance, frequency, phase modulation, power, and microwave attenuation.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Calibrate equipment.	Delivery Order(s) Work Order(s) Calibration Infrastructure Process
b.	Maintain the MetTrack database system in a current state. Administer a calibration recall program. Provide calibration status reporting. IAW DRD 003 Quality Data Plan and Report.	Calibration Infrastructure Process 99% accuracy for MetTrack status within 48 hours of equipment calibration
c.	Maintain the calibration systems and processes. Calibration must be traceable to national, intrinsic, or internationally recognized standards.	Delivery Order(s) Calibration Infrastructure Process Work Order(s) OEM Specifications
d.	Maintain transfer, working, and reference standards and calibration equipment and systems. Calibration must be traceable to national, intrinsic, or internationally recognized standards.	Delivery Order(s) Work Order(s) Calibration Infrastructure Process
e.	Ensure stability of reference standards. Maintain measurement assurance programs, statistical process	Calibration Infrastructure Process

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	control, and/or comparison to properly maintained intrinsic standards.	
f.	Perform incidental maintenance and repair of equipment submitted for calibration.	Delivery Order(s) Calibration Infrastructure Process Work Order(s) OEM Specifications
g.	Prepare presentations for and participate in the Metrology and Calibration Working Group activities.	Delivery Order
h.	Perform maintenance and repair on facility infrastructure. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report	OEM Specifications

7.5 Precision Cleaning and Fluid Component Refurbishment

The Contractor shall perform precision cleaning and component refurbishment to stringent specifications to ensure system safety and reliability for fluid components and systems used in a wide variety of aerospace and special application systems. JSC-SN-C-0005, "Contamination Control Requirements for the Space Shuttle" contains contamination control requirements applicable to space vehicles and Ground Support Equipment (GSE) from design concept through procurement, fabrication, assembly, test, storage, delivery, launch/ground operations, and maintenance for the Space Shuttle Program (SSP).

The Contractor shall provide precision cleaning and fluid component refurbishment services primarily to the test and evaluation functions at WSTF, to other NASA facilities, and other government agencies. Contamination control garments, used in Class 100 clean rooms, must be laundered to comply with industry standards. JPR 5322.1, "Contamination Control Requirements Manual," establishes the requirements and criteria for coordinated contamination control activities. The manual provides the minimum controls necessary to establish and maintain an effective contamination control system. The WDS provides additional contamination control procedures and hardware cleanliness levels for WSTF hardware.

The Contractor shall perform disassembly, decontamination, precision cleaning, reassembly and testing of components that are used in high-pressure and/or high-temperature gaseous oxygen, liquid oxygen, gaseous and liquid hydrogen, hydrazine and its derivatives, nitrogen tetroxide, fluorine, and inert fluids systems. These activities are currently performed in on-site facilities having numerous clean rooms, pre-cleaning

stations, hydrostatic and pneumatic pressure test equipment, and reassemble test areas. A work order may involve disassembly of component, cleaning piece parts, sampling and inspection for required cleanliness level, reassembly of component followed by a functional test.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Perform disassembly, precision cleaning, and reassembly of components, tubing, vessels, or other parts.	Delivery Order(s) Component Services Infrastructure Process Work Order(s) JSC-SN-C-0005, "Contamination Control Requirements for the Space Shuttle" JPR 5322.1, "Contamination Control Requirements Manual"
b.	Maintain the systems and processes to perform precision cleaning and refurbishment of components, cleaning of piping, and in-place cleaning of storage vessels and systems.	Delivery Order(s) Component Services Infrastructure Process Work Order(s) OEM Specifications JSC-SN-C-0005, "Contamination Control Requirements for the Space Shuttle" JPR 5322.1, "Contamination Control Requirements Manual" All systems must be fully operational unless downtime for maintenance or repair has been negotiated with NASA and meet operating specifications when used.
c.	Provide and maintain an existing ACCESS database which contains an inventory of available replacement parts for components processed through the laboratory. The database includes part number, count, inventory of softgoods, and list of soft good kits. It also contains number of available repair kits.	Delivery Order(s) Maintain 95% of parts identified in the program.
d.	Provide technical assistance and training in contamination control processes and the selection of fluid components.	Delivery Order(s)
e.	Provide hydrostatic and pneumatic pressure test services for pressurized components.	Delivery Order(s) Work Order(s) Component Services Infrastructure Process

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
f.	Safely decontaminate components that have been used in hazardous fluids such as hydrazine and nitrogen tetroxide.	Delivery Order(s) Work Order(s) Component Services Infrastructure Process
g.	Perform functional testing and repair of valves, intensifiers, regulators, compressors, filters, vacuum pumps, and other fluid handling equipment to ensure proper operation.	Delivery Order(s) Work Order(s) Component Services Infrastructure Process
h.	Wash and maintain contamination control garments.	WJI SVC CSS 0070 OEM Specifications
i.	Provide nondestructive testing of filter assemblies to establish integrity and define filtration characteristics.	Delivery Order(s) Work Order(s) Component Services Infrastructure Process
j.	Perform maintenance and repair on facility infrastructure. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report	OEM Specifications

7.6 Machining and Welding

The Contractor shall provide machining and welding services in support of facility, test, and flight hardware processing. These services involve fabrication of structures, pressure vessels, sheet metal housings and ducts, flexible hoses, valves, and sabots. Commonly used materials are carbon and stainless steels, aluminum and aluminum alloys, titanium, copper and nickel alloys, and synthetics.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Provide mechanical fabrication and modification including cutting, milling, bending, swaging, turning, engraving, and assembling of test related equipment and complex flight hardware.	Delivery Order(s) Work Order(s) Fabrication Shop Infrastructure Process Rework of flight hardware shall be done in such a way that project schedule is not compromised

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
b.	Provide welding (on location and in shop) using the materials listed above.	Delivery Order(s) Work Order(s) Fabrication Shop Infrastructure Process
c.	Provide preventative maintenance on all machines and fabrication equipment.	Delivery Order(s) Perform preventative maintenance on 100% of machines and equipment OEM Specifications Maintenance shall be performed on all machines within 30 calendar days of scheduled maintenance date.
d.	Perform maintenance and repair on facility infrastructure. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report	OEM Specifications

7.7 Special PPE

Special PPE (Personnel Protective Equipment) such as chemical protective suits (referred to as Totally Encapsulating Suits or TES) and self-contained breathing apparatuses are used in a wide variety of aerospace and special application systems. The Contractor shall service, maintain, and repair Special PPE including TES suits, self-contained breathing apparatuses, and contamination control garments. A TES suit servicing consists of cleaning a TES suit inside and out, inspecting the suit for damaged valves, zippers, and seams, repairing damage, testing the suit for integrity, and maintaining a record of results. The Contractor shall properly train users on the use of the PPE.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Decontaminate, maintain, and repair PPE such as chemical protective suits and self-contained breathing apparatuses and provide engineering investigation and hazard analysis testing for PPE failures.	Delivery Order WSI 25-SW-0007 OEM Specifications
b.	Provide and maintain an existing ACCESS Database containing an inventory of all available PPE (TES and SCBA)	Delivery Order(s) OEM Specifications Records shall not be more then one week out-of-date

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
	Replacement Parts and Configuration Control data.	
c.	Maintain an existing ACCESS database that contains all pertinent information on all Special PPE used on site.	Delivery Order(s) OEM Specifications Records shall not be more then one week out-of-date
d.	Perform maintenance and repair on facility infrastructure. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report	OEM Specifications

7.8 Ordnance

Ordnance operations are required at WSTF primarily in support of the programmatic activities. These activities include testing of pyrotechnics, arming of facility and test hardware containing explosive devices, performing ordnance calibrations for test areas. Additionally, ammunition for the local guard force is treated as part of the ordnance program. Some of WSTF facilities were designed to operate using pyrotechnic devices. Additionally, WSTF's mission of hazardous testing periodically requires the use of pyrotechnics and explosives. A small centralized storage facility and several satellite magazines are located on the facility. The Contractor is required to provide trained personnel that are certified to perform ordnance handling and operations in accordance to State, Federal, and NASA regulations. The Contractor is also required to maintain and control a supply of specific ordnance for the purpose of supporting project test requirements. In addition the Contractor is required to perform and report all ordnance present at WSTF. Disposal of ordnance will be managed under the environmental element of the FOSC.

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
a.	Maintain inventory supply of ordnance and provide ordnance inventory report. IAW DRD 005 Ordnance Inventory Management Report	WSI 25-SW-0014 Quarterly report of inventory supply at locations (central and satellite magazines) Annual inventory report 100% accuracy
b.	Receive and issue ordnance.	WSI 25-SW-0014
c.	Install, arm, and detonate ordnance in support of test programs and perform post-test safing.	WSI 25-SW-0014

	PERFORMANCE REQUIREMENT	PERFORMANCE STANDARDS
d.	Develop, review, and maintain procedures.	WSI 25-SW-0014
e.	Train test personnel and maintain records.	WSI 25-SW-0014
f.	Perform maintenance and repair on facility infrastructure. Report the maintenance status monthly. IAW DRD 004 Monthly Maintenance Report	WSI 25-SW-0014

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SECTION D - PACKAGING AND MARKING

D.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE

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

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE

None included by reference.

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

CLAUSE NUMBER	DATE	TITLE

None included by reference.

(End of clause)

D.2 PACKAGING, HANDLING, AND TRANSPORTATION (NASA 1852.211-70) (NOV 2004)

(a) The Contractor shall comply with NPR 6000.1E, "Requirements for Packaging, Handling, and Transportation for Aeronautical and Space Systems, Equipment, and Associated Components", dated April 26, 1999, as may be supplemented by the statement of work or specifications of this contract, for all items designated as Class I, II, or III.
(b) The Contractor's packaging, handling, and transportation procedures may be used, in whole or in part, subject to the written approval of the Contracting Officer, provided (1) the Contractor's procedures are not in conflict with any requirements of this contract, and (2) the requirements of this contract shall take precedence in the event of any conflict with the Contractor's procedures.
(c) The Contractor must place the requirements of this clause in all subcontracts for items that will become components of deliverable Class I, II, or III items.

(End of clause)

[END OF SECTION]

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SECTION E - INSPECTION AND ACCEPTANCE

E.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE

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

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE
Firm-Fixed-Price Clauses:		
52.246-2	AUG 1996	INSPECTION OF SUPPLIES-- FIXED-PRICE
52.246-4	AUG 1996	INSPECTION OF SERVICES-- FIXED-PRICE
52.246-7	AUG 1996	INSPECTION OF RESEARCH AND DEVELOPMENT— FIXED PRICE
52.246-16	APR 1984	RESPONSIBILITY FOR SUPPLIES
Cost-Reimbursement Clauses:		
52.246-3	MAY 2001	INSPECTION OF SUPPLIES-- COST-REIMBURSEMENT
52.246-5	APR 1984	INSPECTION OF SERVICES-- COST-REIMBURSEMENT
52.246-8	May 2001	INSPECTION OF RESEARCH AND DEVELOPMENT – COST - REIMBURSEMENT

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

CLAUSE NUMBER	DATE	TITLE
Clauses applicable to both Firm-Fixed-Price and Cost-Reimbursement:		
1852.246-73	MAR 1997	HUMAN SPACE FLIGHT ITEM

(End of clause)

E.2 HIGHER-LEVEL CONTRACT QUALITY REQUIREMENT (FAR 52.246-11) (FEB 1999)

The Contractor shall comply with the higher-level quality standard selected below.

Title	Number Date	Tailoring
Quality Management System – Requirements	ANSI/ISO/ASQ Q9001-2000	Current revision applicable to NASA WSTF is dated December 13, 2000. Revision to future application is subject to NASA direction.

(End of clause)

E.3 GOVERNMENT CONTRACT QUALITY ASSURANCE FUNCTIONS (NASA 1852.246-71) (OCT 1988)

In accordance with the inspection clause of this contract, the Government intends to perform the following functions at the locations indicated:

Government Quality Assurance functions are performed by the NASA JSC Safety & Mission Assurance (S&MA) Office to be performed by WSTF-resident S&MA representatives. At NASA/WSTF S&MA discretion, functions may be delegated to S&MA contractor representatives.

Item	Quality Assurance Function	Location
Test, Evaluation, and Repair Projects	In-process surveillance.	WSTF
Test, Evaluation, and Repair Projects	Flight hardware acceptance test parameter verification	WSTF
Test, Evaluation, and Repair Projects	Quality performance data collection and trend analysis	WSTF
Test, Evaluation, and Repair Projects	Procurement quality assessment, including source inspection of critical processes and hardware.	WSTF, Vendor premises for critical source inspection.
Pressure Vessel/System (PV/S) Management	PV/S assessment and certification.	WSTF, El Paso Forward Operating Location
Management System	Management System coordination.	WSTF
Management System	Internal audit scheduling, closeout and acceptance.	WSTF
Management System	Corrective/preventive action coordination and acceptance	WSTF

(End of clause)

E.4 MATERIAL INSPECTION AND RECEIVING REPORT (NFS 1852.246-72) (AUG 2003)

(a) At the time of each delivery to the Government under this contract, the Contractor shall furnish a Material Inspection and Receiving Report (DD Form 250 series) prepared in 6 copies, an original and 5 copies.

(b) The Contractor shall prepare the DD Form 250 in accordance with NASA FAR Supplement 1846.6. The Contractor shall enclose the copies of the DD Form 250

in the package or seal them in a waterproof envelope, which shall be securely attached to the exterior of the package in the most protected location.

(c) When more than one package is involved in a shipment, the Contractor shall list on the DD Form 250, as additional information, the quantity of packages and the package numbers. The Contractor shall forward the DD Form 250 with the lowest numbered package of the shipment and print the words "CONTAINS DD FORM 250" on the package.

(End of clause)

E.5 INSPECTION AND ACCEPTANCE (JSC 52.246-90) (JUN 1991)

Final inspection and acceptance shall be accomplished by the CO or his/her duly authorized representative at NASA Lyndon B. Johnson Space Center, White Sands Test Facility.

(End of clause)

[END OF SECTION]

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F.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE

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

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE

Firm-Fixed-Price Clauses:

52.242-15	AUG 1989	STOP-WORK ORDER
52.242-17	APR 1984	GOVERNMENT DELAY OF WORK
52.247-34	NOV 1991	F.O.B. DESTINATION

Cost-Reimbursement Clauses:

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

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

CLAUSE NUMBER	DATE	TITLE

None included by reference.

(End of clause)

F.2 TASK ORDERING PROCEDURES (OCTOBER 1996) (NFS 1852.216-80) (Cost Reimbursable ID/IQ Delivery Orders Only) (Delivery Orders to be numbered T1, T2, T3, etc.)

(a) Only the Contracting Officer may issue task orders to the Contractor, providing specific authorization or direction to perform work within the scope of the contract and as specified in the schedule. The Contractor may incur costs under this contract in performance of task orders and task order modifications issued in accordance with this clause. No other costs are authorized unless otherwise specified in the contract or expressly authorized by the Contracting Officer.

(b) Prior to issuing a task order, the Contracting Officer shall provide the Contractor with the following data:

(1) A functional description of the work identifying the objectives or results desired from the contemplated task order.

(2) Proposed performance standards to be used as criteria for determining whether the work requirements have been met.

(3) A request for a task plan from the Contractor to include the technical approach, period of performance, appropriate cost information, and any other information required to determine the reasonableness of the Contractor's proposal.

(c) Within 5 calendar days after receipt of the Contracting Officer's request, the Contractor shall submit a task plan conforming to the request.

(d) After review and any necessary discussions, the Contracting Officer may issue a task order to the Contractor containing, as a minimum, the following:

(1) Date of the order.

(2) Contract number and order number.

(3) Functional description of the work identifying the objectives or results desired from the task order, including special instructions or other information necessary for performance of the task.

(4) Performance standards, and where appropriate, quality assurance standards.

(5) Maximum dollar amount authorized (cost and fee or price). This includes allocation of award fee among award fee periods, if applicable.

(6) Any other resources (travel, materials, equipment, facilities, etc.) authorized.

(7) Delivery/performance schedule including start and end dates.

(8) If contract funding is by individual task order, accounting and appropriation data.

(e) The Contractor shall provide acknowledgment of receipt to the Contracting Officer within 2 calendar days after receipt of the task order.

(f) If time constraints do not permit issuance of a fully defined task order in accordance with the procedures described in paragraphs (a) through (d), a task order which includes a ceiling price may be issued.

(g) The Contracting Officer may amend tasks in the same manner in which they were issued.

(h) In the event of a conflict between the requirements of the task order and the Contractor's approved task plan, the task order shall prevail.

(End of clause)

F.3 BILLS OF LADING (NFS 1852.247-73) (JUN 2002)

The purpose of this clause is to define when a commercial bill of lading or a government bill of lading is to be used when shipments of deliverable items under this contract are f.o.b. origin.

(a) **Commercial Bills of Lading.** All domestic shipments shall be made via commercial bills of lading (CBLs). The Contractor shall prepay domestic transportation charges. The Government shall reimburse the Contractor for these charges if they are added to the invoice as a separate line item supported by the paid freight receipts. If paid receipts in support of the invoice are not obtainable, a statement as described below must be completed, signed by an authorized company representative, and attached to the invoice.

I certify that the shipments identified below have been made, transportation charges

have been paid by (company name), and paid freight or comparable receipts are not obtainable.

Contract or Order Number: _____

Destination:_____".

(b) **Government Bills of Lading**. (1) International (export) and domestic overseas shipments of items deliverable under this contract shall be made by Government bills of lading (GBLs). As used in this clause, "domestic overseas" means non-continental United States, i.e. Hawaii, Commonwealth of Puerto Rico, and possessions of the United States. (2) At least 15 days before shipment, the Contractor shall request in writing GBLs from: WSTF Transportation Officer. If time is limited, requests may be by telephone: 505-524-5140. Requests for GBLs shall include the following information.

(i) Item identification/ description.
(ii) Origin and destination.
(iii) Individual and total weights.
(iv) Dimensional Weight.
(v) Dimensions and total cubic footage.
(vi) Total number of pieces.
(vii) Total dollar value.
(viii) Other pertinent data.

(End of clause)

F.4 COMPLETION OF WORK (JSC 52.211-95) (OCT 2001)

All work required under this contract, including submission of all reports, shall be completed on or before April 30, 2009.

(End of clause)

F.5 METHOD OF PLACING DELIVERY ORDERS (JSC 52.216-95) (SEP 1998) (Fixed Price ID/IQ Only)

Delivery Orders may be placed only by the contracting officer. Delivery Orders will be in writing on JSC Form 1429 or orally, followed by written confirmation. Delivery Orders will be numbered "D1," second will be Number "D2", and each succeeding Delivery Order will be numbered consecutively.

Each Delivery Order placed against this contract shall consist of the following information: (A) delivery order number and contract number; (B) place of delivery or performance (including consignee); (C) item/items ordered, including quantity, unit price, and amount of each; (D) date of order, and required delivery date; (E) name of person placing order; (F) funding and appropriation data; (G) Procurement placement code; (H) total amount; (I) signature of the contracting officer.

Amendments to orders may be issued in the same manner as original orders. Each order or amended order shall contain a citation of funds from which payment for the supplies or services ordered shall be made.

(End of clause)

F.6 OPTION TO EXTEND COMPLETION DATE (JSC 52.217-90) (OCT 1996)

The Government may require the contractor to continue to perform services under this contract. The CO may exercise this option by issuance of a unilateral contract modification 30 days or more before the end of the completion date set forth in section F.4. Should the option be exercised, the resultant contract will include all terms and conditions of the basic contract as it exists immediately prior to the exercise of the option, except for the following changes:

Option 1 (Fourth Contract Year)

1. B.3, entitled "Estimated Cost/Price and Fee" is stated below:

SEE THE EXCEL ICON IN SECTION B.3. SELECT THE "OPTIONS" TAB

2. F.4, entitled "Completion Of Work" shall be modified to extend the Completion Date to April 30, 2010.

3. I.1, entitled "Ordering" shall be modified to change issue order dates from May 1, 2009 through April 30, 2010.

4. I.4, the last sentence of the clause entitled "Indefinite Quantity" shall be modified to read "The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after April 30, 2010."

5. I.5, entitled "Payment for Overtime Premiums" shall be modified to increase the payment of overtime premiums by $10,000.

Option 2 (Fifth Contract Year)

1. B.3, entitled "Estimated Cost/Price and Fee" is stated below:

SEE THE EXCEL ICON IN SECTION B.3. SELECT THE "OPTIONS" TAB

2. F.4, entitled "Completion Of Work" shall be modified to extend the Completion Date to April 30, 2011.

3. I.1, entitled "Ordering" shall be modified to change issue order dates from May 1, 2010 through April 30, 2011.

4. I.4, the last sentence of the clause entitled "Indefinite Quantity" shall be modified to read "The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after April 30, 2011."

6. I.5, entitled "Payment for Overtime Premiums" shall be modified to increase the payment of overtime premiums by $10,000.

(End of clause)

F.7 SHIPPING INSTRUCTIONS (JSC 52.247-94) (APR 1997)

All documentation shall be shipped to the addresses cited in the appropriate DRD in Section J. Shipment of all other items shall be as follows:

Parcel Post Shipments and Freight Shipments
Ship to: Transportation Officer,
NASA/JSC/White Sands Test Facility
NASA Road 12600
Building 120
Las Cruces, NM 88012
Mark with: Purchase Request No. _____
Contract Number: NNJ_____
For reissue to: _____
(Name)(Mail Code)(Bldg.)(Rm.)

(End of clause)

F.8 FLIGHT ITEM (JSC 52.247-95) (SEP 1989)

Block 16 of each DD Form 250 prepared for flight hardware or equipment to be shipped under this contract must be annotated as follows in 1/4-inch letters or larger by hand printing or rubber stamp:

"THIS IS A FLIGHT ITEM" or "THIS IS MISSION ESSENTIAL GROUND SUPPORT EQUIPMENT", as applicable.

(End of clause)

F.9 PHASE-IN AND PHASE-OUT

(a) Contractor Phase-In:

The services provided by this contract are vital to the Government's overall effort, and continuity must be maintained at a consistently high level without interruption. The Contractor is expected to meet full performance requirements from the start date of the base contract period. The phase-in period shall be approximately 60 calendar days prior to the start date of the base contract period. The Government will provide approximately 2700 square feet of office space in building T-20, to be shared between the TEC and FOSC contractors. Various onsite conference rooms may be scheduled with the Government. Any portable office space proposed shall not be located immediately near building T-20. All portable office space shall be removed no later than 30 calendar days after the start of the contract period. The Contractor shall support a weekly meeting with the preceding Contractor(s) to discuss/identify problems or areas requiring attention during this phase-in period. The Contractor shall accomplish phase-in in accordance with Section J-7.

The effort performed during phase-in period will be evaluated during Award Fee Period 1.

(b) Contractor Phase-Out:

Phase-out activities shall be accomplished in accordance with FAR 52.237-3, Continuity of Services

[END OF SECTION]

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G.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE

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

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE

None included by reference.

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

CLAUSE NUMBER	DATE	TITLE

Cost-Reimbursement Clauses:

1852.242-71	DEC 1988	TRAVEL OUTSIDE OF THE UNITED STATES

Clauses applicable to both Firm-Fixed-Price and Cost-Reimbursement:

1852.223-71	DEC 1988	FREQUENCY AUTHORIZATION
1852.227-70	MAY 2002	NEW TECHNOLOGY
1852.227-86	DEC 1987	COMMERCIAL COMPUTER SOFTWARE-LICENSING
1852.242-73	NOV 2004	NASA CONTRACTOR FINANCIAL MANAGEMENT REPORTING
1852.245-70	NOV 2004	CONTRACTOR REQUESTS FOR GOVERNMENT-OWNED EQUIPMENT

(End of clause)

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

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

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

plan of the contract. The plan may be revised unilaterally by the Government prior to the beginning of any rating period to redirect emphasis.

(c) The Government will advise the Contractor in writing of the evaluation results. The Financial Management Division will make payment based on issuance of unilateral modification by Contracting Officer.

(d) After 85 percent of the potential award fee has been paid, the Contracting Officer may direct the withholding of further payment of award fee until a reserve is set aside in an amount that the Contracting Officer considers necessary to protect the Government's interest. This reserve shall not exceed 15 percent of the total potential award fee.

(e) The amount of award fee which can be awarded in each evaluation period is limited to the amounts set forth at Section J-1. Award fee which is not earned in an evaluation period cannot be reallocated to future evaluation periods.

(f)(1)Provisional award fee payments will be made under this contract pending the determination of the amount of fee earned for an evaluation period. If applicable, provisional award fee payments will be made to the Contractor on a monthly basis. The total amount of award fee available in an evaluation period that will be provisionally paid is the lesser of 80 percent or the prior period's evaluation score.

(f)(2) Provisional award fee payments will be superseded by the final award fee evaluation for that period. If provisional payments exceed the final evaluation score, the Contractor will either credit the next payment voucher for the amount of such overpayment or refund the difference to the Government, as directed by the Contracting Officer.

(f)(3) If the Contracting Officer determines that the Contractor will not achieve a level of performance commensurate with the provisional rate, payment of provisional award fee will be discontinued or reduced in such amounts as the Contracting Officer deems appropriate. The Contracting Officer will notify the Contractor in writing if it is determined that such discontinuance or reduction is appropriate.

(f)(4)Provisional award fee payments will be made prior to the first award fee determination by the Government.

(g) Award fee determinations are unilateral decisions made solely at the discretion of the Government.

(End of clause)

G.3 SUBMISSION OF VOUCHERS FOR PAYMENT (NFS 1852.216-87) (MAR 1998) (COST-REIMBURSEMENT ONLY)

(a) The designated billing office for cost vouchers for purposes of the Prompt Payment clause of this contract is indicated below. Public vouchers for payment of costs shall include a reference to the number of this contract.

(b)(1) If the contractor is authorized to submit interim cost vouchers directly to the NASA paying office, they shall be prepared in accordance with paragraph (c) of this clause and submitted to:

NASA Johnson Space Center
Attn: LF231/Accounts Payable Group
Houston, TX 77058-3696

(2) For any period that the Defense Contract Audit Agency has authorized the Contractor to submit interim vouchers directly to the Government paying office, interim vouchers are not required to be sent to the Auditor, and are considered to be provisionally approved for payment, subject to final audit.

5 Copies of vouchers should be submitted as follows:

(i) Copy 1 - NASA Contracting Officer
(ii) Copy 2 - DCAA Auditor
(iii) Copy 3 - Contractor
(iv) Copy 4 - Contract Administration Office, if delegated
(v) Copy 5 - WSTF Project Manager

(c) If the contractor is not authorized to submit interim cost vouchers directly to the paying office as described in paragraph (b), the contractor shall prepare and submit vouchers as follows:

(1) One original Standard Form (SF) 1034, SF 1035, or equivalent Contractor's attachment to the cognizant DCAA office

(2) Five copies of SF 1034A, SF 1035A, or equivalent Contractor's attachment to the following offices by insertion in the memorandum block of their names and addressees:

(i) Copy 1 - NASA Contracting Officer
(ii)Copy 2 - DCAA Auditor
(iii)Copy 3 - Contractor
(iv)Copy 4 - Contract Administration Office, if delegated
(v) Copy 5 - WSTF Project Manager

(3) The Contracting Officer may designate other recipients as required.

(d) Public vouchers for payment of fee shall be prepared similarly to the procedure in paragraph (c) of this clause, and be forwarded to:

NASA/JSC/White Sands Test Facility
Attn: BH5/Contracting Officer
P.O. Box 20
Las Cruces, NM 88004

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

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

(End of clause)

G.4 DESIGNATION OF NEW TECHNOLOGY REPRESENTATIVE AND PATENT REPRESENTATIVE (NASA 1852.227-72) (JUL 1997)

(a) For purposes of administration of the clause of this contract entitled "New Technology" or "Patent Rights -- Retention by the Contractor (Short Form)", whichever is included, the following named representatives are hereby designated by the Contracting Officer to administer such clause:

NEW TECHNOLOGY REPRESENTATIVE:

AT/Technology Transfer & Commercialization Office
NASA Johnson Space Center
Houston, TX 77058

PATENT REPRESENTATIVE:

AL/Patent Representative
NASA Johnson Space Center
Houston, TX 77058

(b) Reports of reportable items, and disclosure of subject inventions, interim reports, final reports, utilization reports, and other reports required by the clause, as well as any correspondence with respect to such matters, should be directed to the New Technology Representative unless transmitted in response to correspondence or request from the Patent Representative. Inquires or requests regarding disposition of rights, election of rights, or related matters should be directed to the Patent Representative. This clause shall be included in any subcontract hereunder requiring a "New Technology" clause or "Patent Rights--Retention by the Contractor

(Short Form)" clause, unless otherwise authorized or directed by the Contracting Officer. The respective responsibilities and authorities of the above-named representatives are set forth in 1827.305-370 of the NASA FAR Supplement.

(End of clause)

G.5 TECHNICAL DIRECTION (NASA 1852.242-70) (SEP 1993)

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

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

(b)(1) Constitutes an assignment of additional work outside the statement of work;

(b)(2) Constitutes a change as defined in the changes clause;

(b)(3) Constitutes a basis for any increase or decrease in the total estimated contract cost, the fixed fee (if any), or the time required for contract performance;

(b)(4) Changes any of the expressed terms, conditions, or specifications of the contract; or

(b)(5) Interferes with the contractor's rights to perform the terms and conditions of the contract.

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

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

(1) Rescinded in its entirety; or

(2) Within the requirements of the contract and does not constitute a change under the changes clause of the contract, and that the Contractor should proceed promptly with its performance.

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

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

(End of clause)

G.6 INSTALLATION-ACCOUNTABLE GOVERNMENT PROPERTY (NASA 1852.245-71) (NOV 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:

User Responsibilities: Reference Document (NPR 4200.2)

Chapter 2.

2.7. Responsibility of the Individual. The contractor shall ensure that each of its employees are responsible for Government property as follows: An employee has a duty to protect and conserve Government property and shall not use such property, or allow its use, for other than authorized purposes. Additional responsibilities include the following:

2.7.1. Reporting any missing or un-tagged (meeting the criteria for control) equipment, transfer, location change, or user change of equipment to the property custodian immediately.

2.7.2. Notifying the property custodian, supervisor, and the Center security officer immediately if theft of Government property is suspected.

2.7.3. Ensuring that equipment is used only in pursuit of approved NASA programs and projects.

2.7.4. Notifying the property custodian of equipment not actively being used for determination of proper disposition.

2.7.5. Ensuring that equipment is returned through the property custodian when no longer needed. Under no circumstances will an employee throw away Government equipment.

2.7.6. Assigned users retain all responsibilities including notifying property custodians of all activity associated with the user's assigned equipment.

2.8. The contractor must ensure that all on-site contractor employees notify the contracting officer, property custodian, and SEMO upon termination of employment.

Chapter 4.

4.2.11. The user will assist the custodian in completing NF 1618 and sign in the designated block.

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.

(1) The official accountable record keeping, physical inventory, financial control, and reporting of the property subject to this clause shall be retained by the Government and accomplished by the installation Supply and Equipment Management Officer (SEMO) and Financial Management Officer. If this contract provides for the contractor to acquire property, title to which will vest in the Government, the following additional procedures apply:

(i) The contractor's purchase order shall require the vendor to deliver the property to the installation central receiving area;

(ii) The contractor shall furnish a copy of each purchase order, prior to delivery by the vendor, to the installation central receiving area:

(iii) The contractor shall establish a record of the property as required by FAR 45.5 and 1845.5 and furnish to the Industrial Property Officer a DD Form 1149 Requisition and Invoice/Shipping Document (or installation equivalent) to transfer accountability to the Government within 5 working days after receipt of the property by the contractor. The contractor is accountable for all contractor-acquired property until the property is transferred to the Government's accountability.

(iv) Contractor use of Government property at an off-site location and off-site subcontractor use require advance approval of the contracting officer and notification of the SEMO. The contractor shall assume accountability and financial reporting responsibility for such property. The contractor shall establish records and property control procedures and maintain the property in accordance with the requirements of FAR Part 45.5 until its return to the installation.

(2) After transfer of accountability to the Government, the contractor shall continue to maintain such internal records as are necessary to execute the user responsibilities identified in paragraph (a) and document the acquisition, billing, and disposition of the property. These records and supporting documentation shall be made available, upon request, to the SEMO and any other authorized representatives of the contracting officer.

(End of clause)

G.7 FINANCIAL REPORTING OF NASA PROPERTY IN THE CUSTODY OF CONTRACTORS (NFS 1852.245-73) (OCT 2003)

(a) The Contractor shall submit annually a NASA Form (NF) 1018, NASA Property in the Custody of Contractors, in accordance with the provisions of 1845.505-14, the instructions on the form, subpart 1845.71, and any supplemental instructions for the current reporting period issued by NASA.

(b)(1) Subcontractor use of NF 1018 is not required by this clause; however, the Contractor shall include data on property in the possession of subcontractors in the annual NF 1018.

(2) The Contractor shall mail the original signed NF 1018 directly to the cognizant NASA Center Deputy Chief Financial Officer, Finance, unless the Contractor uses the NF 1018 Electronic Submission System (NESS) for report preparation and submission.

(3) One copy shall be submitted (through the Department of Defense (DOD) Property Administrator if contract administration has been delegated to DOD) to the following address: LF631/Property Accounting and JB3/Property Administrator], unless the Contractor uses the NF 1018 Electronic Submission System (NESS) for report preparation and submission.

(c)(1) The annual reporting period shall be from October 1 of each year through September 30 of the following year. The report shall be submitted in time to be received by October 15. The information contained in these reports is entered into the NASA accounting system to reflect current asset values for agency financial statement purposes. Therefore, it is essential that required reports be received no later than October 15. Some activity may be estimated for the month of September, if necessary, to ensure the NF 1018 is received when due. However, contractors procedures must document the process for developing these estimates based on planned activity such as planned purchases or NASA Form 533 (NF 533 Contractor Financial Management Report) cost estimates. It should be supported and documented by historical experience or other

corroborating evidence, and be retained in accordance with FAR Subpart 4.7, Contractor Records Retention. Contractors shall validate the reasonableness of the estimates and associated methodology by comparing them to the actual activity once that data is available, and adjust them accordingly. In addition, differences between the estimated cost and actual cost must be adjusted during the next reporting period. Contractors shall have formal policies and procedures, which address the validation of NF 1018 data, including data from subcontractors, and the identification and timely reporting of errors. The objective of this validation is to ensure that information reported is accurate and in compliance with the NASA FAR Supplement. If errors are discovered on NF 1018 after submission, the contractor shall contact the cognizant NASA Center Industrial Property Officer (IPO) within 30 days after discovery of the error to discuss corrective action.

(2) The Contracting Officer may, in NASA's interest, withhold payment until a reserve not exceeding $25,000 or 5 percent of the amount of the contract, whichever is less, has been set aside, if the Contractor fails to submit annual NF 1018 reports in accordance with 1845.505-14 and any supplemental instructions for the current reporting period issued by NASA. Such reserve shall be withheld until the Contracting Officer has determined that NASA has received the required reports. The withholding of any amount or the subsequent payment thereof shall not be construed as a waiver of any Government right.

(d) A final report shall be submitted within 30 days after disposition of all property subject to reporting when the contract performance period is complete in accordance with (b)(1) through (3) of this clause.

(End of clause)

G.8 LIST OF INSTALLATION-ACCOUNTABLE PROPERTY AND SERVICES (NFS 1852.245-77) (JULY 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) The following will be made available as listed in Section J-4 (Government assumes responsibility for repair or replacement):

List 1 – Test and Evaluation Contract (TEC) IAP
List 2 – Government-provided GSA Vehicles

The Government retains accountability for this property under 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. The contractor shall not utilize the installation's central receiving station for receipt of Contractor-owned property. However, the Contractor shall provide listings suitable for establishing accountable records of all such property received, on a quarterly basis, to the Contracting Officer and the Supply and Equipment Management Officer.

(c) Vehicles will be provided: [Section J-4, List 2].

(d) Publications and blank forms stocked by the installation.

(e) Safety and fire protection for Contractor personnel and facilities.

(f) Installation service facilities.

(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) Installation services facilities: Library, Official Mail Services (excluding meter usage), Wellness/Fitness Center, and general ODIN services as approved by the Government which includes telephones (excludes cell phones), ODIN Seats (246), two-way radios, and network connections.

(l) Disposal Services for excess on-site and off-site Contractor-held/Government-owned property.

(m) Reserved

(n) 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.

NPD 4100.1 Supply Support and Material Management Policy.

(1) NPR 4100.1D NASA Materials Inventory Management Manual.

(2) NPD 4200.1A Equipment Management Policy.

(3) NPR 4200.1E NASA Equipment Management Manual.

(4) NPR 4200.2B Equipment Management Manual for Property Custodians.

(5) NPD 4300.1 NASA Personal Property Disposal Policy.

(6) NPR 4300.1A NASA Personal Property Disposal Procedures and Guidelines.

(7) The Department of the Army Supply Bulletin SB 708-21, *Federal Supply Classification Part 1, Groups and Classes* (Dec 1986)

(End of clause)

G.9 USE OF GOVERNMENT PRODUCTION AND RESEARCH PROPERTY ON A NO-CHARGE BASIS (NFS 1852.245-80) (MARCH 1989)

In performing this contract, the Contractor is authorized to use on a no-charge, noninterference basis the Government-owned production and research property provided to the Contractor under the contract(s) specified below and identified in the cognizant Contracting Officer's letter approving use of the property. Use is authorized on the basis that it will not interfere with performance of the Government contract(s) under which the property was originally furnished. Use shall be in accordance with the terms and conditions of these contracts and the cognizant Contracting Officer's approval letter.

Contract No(s): FOSC Contract

(End of clause)

G.10 SECURITY/BADGING REQUIREMENTS FOR FOREIGN NATIONAL VISITORS AND EMPLOYEES/REPRESENTATIVES OF FOREIGN CONTRACTORS (JSC 52.204-91) (MAR 2002)

(a) An employee of a domestic Johnson Space Center (JSC) contractor or its subcontractor who is not a U.S. citizen (foreign national) may not be admitted to the JSC site for purposes of performing work without special arrangements. In addition, all employees or representatives of a foreign JSC contractor/subcontractor may not be admitted to the JSC site without special arrangements. For employees as described above, advance notice must be given to the Security Office of the host installation [JSC or White Sands Test Facility (WSTF)] at least 3 weeks prior to the scheduled need for access to the site so that instructions on obtaining access may be provided.

(b) All visit/badge requests for persons described in (a) above must be entered in the NASA Request for Request (RFR) and Foreign National Management System (NFNMS) for acceptance, review, concurrence and approval purposes. When an authorized company official requests a JSC or WSTF badge for site access, he/she is certifying that steps have been taken to ensure that its contractor or subcontractor employees, visitors, or representatives will not be given access to export-controlled or classified information for which they are not authorized. The authorized company officials shall serve as the contractor's representative(s) in certifying that all visit/badge request forms are processed in accordance with JSC and WSTF security and export control procedures. No foreign national, representative, or resident alien contractor/subcontractor employee shall be granted access into JSC or WSTF until a completed RFR has been approved and processed through the NFNMS. Unescorted access will not be granted unless a favorable National Agency Check (NAC) has been completed by the JSC Security Office.

(c) The contractor agrees that it will not employ for the performance of work onsite at the JSC or WSTF any individuals who are not legally authorized to work in the United States. If the JSC or WSTF Industrial Security Specialist or the contracting officer has reason to believe that any employee of the contractor may not be legally authorized to work in the United States and/or on the contract, the contractor may be required to furnish copies of Form I-9 (Employment Eligibility Verification), U.S. Department of Labor Application for Alien Employment Certification, and any other type of employment authorization document.

The contractor agrees to provide the information requested by the JSC or WSTF Security Office in order to comply with NASA policy directives and guidelines related to foreign visits to NASA facilities so that (1) the visitor/employee/ representative may be allowed access to JSC or other NASA Centers for performance of this contract, (2) required investigations can be conducted, and

(3) Required annual or revalidation reports can be submitted to NASA Headquarters. All requested information must be submitted in a timely manner in accordance with instructions provided by JSC or any other Center to be visited.

(End of clause)

G.11 JSC HAZARDOUS MATERIALS USE (JSC 52.223-92) (DEC 1999)

(a) This clause is JSC-unique, and the requirements are in addition to any U.S. Environmental Protection Agency, U.S. Occupational Safety and Health Administration, or other state or Federal regulation or statute. Therefore, the following requirements do NOT supersede any statutory or regulatory requirements for any entity subject to this clause.

(b) "Hazardous materials," for the purposes of this clause, consist of the following:

(1) Those materials defined as "highly hazardous chemicals" in Occupational Safety and Health Administration Process Safety Management Regulation, 29 Code of Federal Regulation 1010.119, without regard for quantity.

(2) Those "extremely hazardous substances" subject to the emergency planning requirements in the Environmental Protection Agency Emergency Planning and Community Right-to-Know Regulation, 40 Code of Federal Regulation 355, Part 355, without regard for quantity.

(3) Those "hazardous substances" subject to the release notification requirements under Environmental Protection Agency's Emergency Planning and Community Right-to-Know Regulation, 40 Code of Federal Regulation 302.4, without regard for quantity.

(4) Any radioisotope material or device that produces ionizing radiation.

(5) Any Class II, III, or IV laser as defined by the American National Standards Institute No. Z136.1 (1986)

(6) Any explosive or any pyrotechnics.

(7) Any pesticide.

(c) The contractor shall develop and maintain an inventory listing the identity and quantity of hazardous materials stored or used onsite at JSC for the performance of the contract.

(d) The contractor shall ensure that the proper training of its employees in the use and inherent hazards of these materials is accomplished prior to use.

(e) The contractor shall notify the JSC Occupational Health and Test Support Office (SD13) prior to any initial use or different application of these materials.

(f) The contractor shall use all hazardous materials properly and take all necessary precautions to ensure no harm is done to humans or the environment.

(g) The contractor shall insert the substance of this clause, including this Paragraph F with appropriate changes of designations of the parties, in subcontracts under which hazardous materials will be utilized, or may reasonably be expected to be utilized, onsite at JSC.

(h) In the event the contractor fails or refuses to comply with any aspect of this clause, such failure or refusal may be considered a material breach of this contract.

(End of clause)

G.12 SUBMISSION OF INVOICES (JSC 52.232-90) (OCT 1993) (FIXED-PRICE ONLY)

Invoices shall be prepared and submitted in quadruplicate unless otherwise specified. Invoices shall contain the following information as applicable: contract and order number, item numbers, description of supplies or services, sizes, quantities, unit prices, and extended totals. Invoices shall be submitted to:

NASA/JSC/White Sands Test Facility
Attn: BH5/Contracting Officer
P.O. Box 20
Las Cruces, NM 88004

In the event that amounts are withheld from payment in accordance with the New Technology Clause or other provisions of this contract, a separate invoice for the amount withheld will be required before payment for that amount may be made.

(End of clause)

G.13 UNDERSTANDING WITH RESPECT TO COST VARIATIONS (JSC 52.232-93) (MAR 1989)

The estimated cost of this contract is based on cost estimates for a number of cost elements (e.g., direct labor, overhead, materials, travel). One or more of these estimates were made by the Government and provided to the contractor in the solicitation leading to this contract. The parties recognize that the contractor's obligation to perform tasks within the scope of the Statement of Work could result in actual contractor expenditures which are greater or less than the Government's estimates provided to the contractor for the related cost element. Should such be the case, the parties agree that there will be no adjustment to the fee provided for in this contract, nor to any other terms and conditions hereof, except the contract estimated cost, should that become necessary. Any such adjustment in estimated cost will be subject to the

terms of the "Limitation of Cost" or "Limitation of Funds" clause hereof, whichever is applicable.

(End of clause)

G.14 IDENTIFICATION OF EMPLOYEES (JSC 52.242-92) (MAR 2002)

At all times, while on Government property, the contractor, subcontractors, their employees, and agents shall wear badges which will be issued by the NASA Badging & Visitor Control Office, located in Building 110 at the Johnson Space Center (JSC), or at the Main Gate at the White Sands Test Facility (WSTF). JSC employee badges will be issued only between the hours of 7:30 a.m. to 4 p.m., Monday through Thursday, and 7:30 am to 12:00 pm on Friday. JSC visitor badges will be issued between the hours of 6 a.m. to 10 p.m., 7 days a week. WSTF employee badges will be issued only between the hours of 8 a.m. to 2 p.m., Monday through Friday. WSTF visitor badges will be issued on a 7-day a week, 24-hour a day basis. Resident aliens and foreign nationals/representatives shall be issued green foreign national badges.

Each individual who wears a badge shall be required to sign personally for the badge. The contractor shall be held accountable for issued badges and all other related items and must assure that they are returned to the NASA Badging & Visitor Control Offices upon completion of work under the contract in accordance with Security Management Directive (SMD) 500-15, "Security Termination Procedures." Failure to comply with the NASA contractor termination procedures upon completion of the work (e.g., return of badges, decals, keys, CAA cards, clearance terminations, JSC Public Key Infrastructure (PKI)/special program deletions, etc.) may result in final payment being delayed.

(End of clause)

G.15 USE OF WSTF ON-SITE CAPABILITIES

The contractor shall utilize on-site capabilities to the maximum extent practical for service and products such as calibration, chemistry and metallurgical laboratories, component services, drafting, lifting, photo and video, and environmental compliance under this contract. In the event that the contractor has a compelling rationale for obtaining services outside of WSTF on-site capabilities, prior expressed permission from the COTR is required.

[END OF SECTION]

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SECTION H - SPECIAL CONTRACT REQUIREMENTS

H.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE

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

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE

None included by reference.

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

CLAUSE NUMBER	DATE	TITLE

Cost-Reimbursement Clauses:

1852.223-76	JUL 2003	FEDERAL AUTOMOTIVE STATISTICAL TOOL (FAST) REPORTING
1852.242-72	AUG 1992	OBSERVANCE OF LEGAL HOLIDAYS (ALTERNATE II) (OCT 2000)

Clauses applicable to both Firm-Fixed-Price and Cost-Reimbursement:

1852.208-81	NOV 2004	RESTRICTIONS ON PRINTING AND DUPLICATING
1852.223-70	APR 2002	SAFETY AND HEALTH
1852.223-75	FEB 2002	MAJOR BREACH OF SAFETY OR SECURITY
1852.225-70	FEB 2000	EXPORT LICENSES (ALTERNATE I) (FEB 2000) Insert in Paragraph (b): Johnson Space Center White Sands Test Facility
1852.228-72	SEP 1993	CROSS-WAIVER OF LIABILITY FOR SPACE SHUTTLE SERVICES
1852.228-76	DEC 1994	CROSS-WAIVER OF LIABILITY FOR SPACE STATION ACTIVITIES
1852.228-78	SEP 1993	CROSS-WAIVER OF LIABILITY FOR NASA EXPENDABLE LAUNCH VEHICLE (ELV) LAUNCHES
1852.235-73	FEB 2003	FINAL SCIENTIFIC AND TECHNICAL REPORTS (ALTERNATE II) (FEB 2003)
1852.244-70	APR 1985	GEOGRAPHIC PARTICIPATION IN THE AEROSPACE PROGRAM

(End of clause)

H.2 LIMITATION OF FUTURE CONTRACTING (DECEMBER 1988) (1852.209-71)

(a) The Contracting Officer has determined that this acquisition may give rise to a potential organizational conflict of interest. Accordingly, the attention of prospective offerors is invited to FAR Subpart 9.5--Organizational Conflicts of Interest.

(b) The nature of this conflict is: The awarded TEC contractor would be precluded from submitting equipment, specifications or designs for testing or analysis under the TEC contract without a conflict of interest avoidance plan having been previously approved by the TEC contracting officer. The awarded contractor recognized this requirement of the TEC contract could restrict or preclude its participation in other Department of Defense and NASA contracts, where White Sands Test Facility may be the designated location for testing and analysis.

(c) The restrictions upon future contracting are as follows:

(1) If the Contractor, under the terms of this contract, or through the performance of tasks pursuant to this contract, is required to develop specifications or statements of work that are to be incorporated into a solicitation, the Contractor shall be ineligible to perform the work described in that solicitation as a prime or first-tier subcontractor under an ensuing NASA contract. This restriction shall remain in effect for a reasonable time, as agreed to by the Contracting Officer and the Contractor, sufficient to avoid unfair competitive advantage or potential bias (this time shall in no case be less than the duration of the initial production contract). NASA shall not unilaterally require the Contractor to prepare such specifications or statements of work under this contract.

(2) 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 these data remain proprietary or confidential, the Contractor shall protect these data from unauthorized use and disclosure and agrees not to use them to compete with those other companies.

(End of clause)

H. 3 RESERVED

(End)

H.4 KEY PERSONNEL AND FACILITIES (NASA 1852.235-71) (MAR 1989)

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

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

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

(End of clause)

H.5 REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS (JSC 52.209-90) (SEP 1988)

This contract incorporates Section K, Representations, Certifications, and Other Statements of Offerors, as set forth in the contractor's proposal [Insert number] NNJ05098306R dated December 7, 2005, by reference, with the same force and effect as if it were given in full text.

(End of clause)

H.6 SMALL BUSINESS SUBCONTRACTING GOALS (JSC 52.219-90) (JAN 2003)

For purposes of this clause, the terms,"HUBZone Small Business Concern,""Small Disadvantaged Business Concern," "Service- Disabled, Veteran-Owned Small Business Concern," "Veteran-Owned Small Business Concern," "Women-Owned Small Business Concern," and "Historically Black College or University (HBCU)" are defined in paragraph 2.101 of the Federal Acquisition Regulation.

The total small business goal, expressed as a percent of total contract value, is 30 percent, including options. The small business percentage goal, (30 percent), includes the following sub goals expressed as a percent of total contract value:

Small Disadvantaged Business Concerns:	16 percent
Woman-Owned Small Business Concerns:	6 percent
HUBZone Small Business Concerns:	6 percent
Veteran-Owned Small Business Concern:	10 percent

Service-Disabled, Veteran-Owned Small Business Concern:	10 percent
HBCU's (includes other minority institutions):	1 percent

(End of clause)

H.7 RESERVED

H.8 SPECIAL PROVISION FOR CONTRACT CHANGES (COMPLETION FORM/COST REIMBURSABLE ONLY)

The parties agree that, notwithstanding the provisions of the "Changes" clause and the "Government Property" clause, no change made pursuant to the "Changes" clause shall give rise to an equitable adjustment in the estimated cost or fee or any other contract provision when said change causes an increase or decrease of $250,000 or less in the estimated cost of this contract. Each change shall be controlling in making this determination, and such change shall not, for purposes of determining the applicability of this clause, be added to any other change(s). The parties recognize that several changes may be grouped together in a bilateral modification for definitization; however, the dollar value of each individual change will be controlling in determining whether or not an equitable adjustment is in order.

H.9 ASSOCIATE CONTRACTOR AGREEMENT FOR WHITE SANDS TEST FACILITY

(a) The success of White Sands Test Facility is dependent on the efforts of multiple contractors. The Test and Evaluation Contract (TEC) contractor is a key participant. The other key contract includes the:

Facility Operation and Support Contract (FOSC)

The FOSC contract provides Facilities Maintenance and Operations, Institutional Systems and Services, Management and Documentation systems, Institutional Safety, Institutional Services, Environmental, White Sands Space Harbor and Facility Projects.

(b) In order to achieve efficient and effective implementation of WSTF operations, the contractor shall establish the means for coordination and exchange of information with associate contractors. The information to be exchanged shall be that required by the contractors in the execution of their respective contract requirements. The contractors are strongly encouraged to seek out and foster cooperative efforts that will benefit WSTF with increased safety, efficiency, and productivity.

(c) Given the unique role of this contract, and interrelations with the operation, maintenance and utilization of the WSTF, the contractor will engage in cooperative relationships that facilitate effective management of the overall WSTF effort. This joint cooperation will be evaluated as part of the contract award fee process, as defined in the Award Fee Evaluation Plan for the contract.

(d) To ensure successful operation of the WSTF, the contractor shall establish formal guidelines to address coordination, cooperation, and communication. All program elements shall work in a coordinated fashion. Each contractor shall establish the means for the exchange of such data as needed to keep other project elements fully informed.

(End of clause)

H.10 ADDITIONAL EXPORT CONTROL REQUIREMENTS

In addition to the requirements set forth in NFS 1852.225-70 EXPORT LICENSES, the contractor shall perform the following tasks when they facilitate exports of NASA hardware, software or technical data according to the Export Administration Regulations, International Traffic in Arms Regulations or any other U.S. export control regulations (e.g. Nuclear Regulatory Commission, Drug Enforcement Agency etc.) pursuant to this contract:

1. Provide to the Johnson Space Center (JSC) Export Services Team (EST), in writing, an "Advanced Notification of Export" (ANE) for all program related exports (hardware, software and technical data) where NASA is considered the "U.S. Principal Party in Interest" (USPPI)". The requirements below shall be met by the contractor and its subcontractors, respectively, when accomplishing the following activities:

   a. Submitting requests for NASA to apply for an export license with the Department of Commerce or Department of State for use under the contract activity in support of the International Space Station Program.

   b. Submitting notice of the contractor's intent to use Department of Commerce or Department of State export licenses obtained by NASA as they apply to the contract activity in support of the International Space Station Program.

   c. Submitting notice of the contractor's intent to use any export license exceptions or exemptions as they apply to the contract activity in support of the International Space Station Program.

2. For all program related exports (hardware, software or technical data), submit the equivalent information described below to the Center Export Administrator (CEA) at

the geographically closest NASA Space Flight Center (JSC, Marshall Space Flight Center (MSFC) or Kennedy Space Center (KSC)) according to the policies and procedures of that center (check with the cognizant Contracting Officer or CEA). A courtesy copy of equivalent information submitted to MSFC or KSC shall be provided to the JSC CEA's office. Provide copies of shipping documents for shipments made under a NASA Export License, exemption or exception to the appropriate CEA within two weeks after the shipment.

a. The contractor shall submit requests for NASA to apply for a license at least 7 months prior to the need date to export. Note that the agencies which approve the licenses can take up to 6 months or more to process them.
b. The contractor shall submit an ANE in a formal letter, fax or e-mail (e-mail is preferred), containing the information described below (as applicable), addressed to the CEA's Office in accordance with the submission schedule below. The schedule provides a minimum amount of time required to process the information, however license requests may take longer than 6 months to process by the controlling agency.

Required Information	**License Application**	**Use of License**	**Use Exemption/Exception**
Submission Schedule	7 months prior to need date	At least 30 days prior to planned export date	At least 30 days prior to planned export date
Description of Commodity (as it appears on the license)	X	X	X
Specific End Use	X		X
1) NASA license number (include date of expiration), International Traffic in Arms Regulation (ITAR) license exemption (e.g. 125.4(b)(3)) or Export Administration Regulation (EAR) exception (e.g. GOV, RPL, TMP, ENC, etc.). *		X	X
2) Quantity and description as it appears on the applicable license.	X	X	X
3) Date of planned export	X	X	X

4) Origin of export (Company and city).	X	X	X
5) Intermediate and Ultimate Consignees, End User (full name and address), and Destination of export (Country, city and company).	X		
6) Point of contact with current phone number and e-mail address (for technical questions – must be a representative of the contractor originating the export).	X	X	X
7) Contractor Point of contact, current e-mail address and phone number for CEA's use to send response	X	X	X
8) Export Classification Control Number (ECCN) under the Export Administration Regulations or category under the United Sates Munitions List regulations	X		X
9) The technical rationale used to support the classification	X		X
10) Requirement to export (i.e., MOU, contract number, meeting minutes). Upon request by the CEA or CO, the contractor shall provide a copy of the requirement within 3 working days	X		X
11) Additional information as necessary to clarify the export	X	X	X
12) A copy of the	X	X	X

completed Pro Forma Invoice (JSC Form 1735) or equivalent form/ document attached to an email if prepared for the export			
13) A copy of the completed electronically signed JSC Form 1724 (Export Control Request and Approval Worksheet) or equivalent form	X Signed by Civil Servant -Export Rep	X Copy of Signed form	X Signed by Civil Servant - Export Rep
NASA Point of Contact	X		X
Specific End Use	X	X	X

* Additional information is required for these exceptions.

i. If using RPL, provide the license number, or copy of records confirming export authorization for the item being replaced.

ii. If using ENC, provide reference to the manufacturer's record verifying eligibility for ENC (e.g. full internet address (URL), e-mail from manufacturer or copy of Commerce Department communication to manufacturer.

iii. If using TMP, provide the expected return date.) **

c. After all the information is submitted, the cognizant CEA's office will respond to the contractor or its subcontractor with a status within ten (10) working days. It is the CEA's goal to provide a notice of approval or other disposition within 10 working days for "Use of License" and "Use of Exemption/Exception" to the contractor or its subcontractors who are exporting on behalf of NASA. Once approved, NASA will provide the destination control statement to use on all export documentation via e-mail or hardcopy letter.

3. In addition to other applicable export exemptions, the contractor or its subcontractors are authorized to export hardware, software or data to ISS International Partner (IP) governmental offices that meet the conditions of license exception GOV (15 CFR 740.11(b)(2)(iii)(A)).

4. ** For temporary exports (TMP), the contractor or its subcontractors shipping on behalf of NASA shall submit written notice to the CEA and CO within five (5) business days of the date that the item was actually returned, along with the incoming documentation.

5. The contractor or its subcontractors shall keep those records required by Department of Commerce and Department of State regulations for all exports and make them available upon request to NASA and its representatives.

6. These requirements do not apply to contractor or subcontractor commercial contract related exports or exports pursuant to Technical Assistance Agreements or other license authorizations received by the contractor or its subcontractors and for which the contractor or its subcontractors will be the USPPI . and/or "exporter of record".

7. These requirements do not apply to exports for which there is "No License Required" (e.g. EAR99, 9A004 to Canadian International Partners on ISS, etc.)

8. The contractor and its subcontractors shall report to the NASA JSC EST, in writing, any potential export issues (including those related to support of sustaining engineering and operations of ISS) that cannot be resolved by the contractor or its subcontractors, respectively. Such report and/or notification of issues and technical tasks should be reported to the NASA JSC EST at least three (3) months in advance of requested action.

9. Upon discovery of unforeseen adverse export issues, the contractor shall immediately notify NASA JSC EST by telephone with a follow up e-mail or hardcopy letter of said issue and shall report to the NASA JSC EST, in writing, as the facts become known.

10. This clause applies when the contractor or its subcontractors elect to export NASA owned Government Furnished Equipment and Property (GFE, GFP) (including data, software or hardware). In such instances, the contractor or its subcontractors are the USPPI. They shall provide verifiable evidence that a valid export license, exemption or exception has been processed and approved (as applicable). They shall also provide this information for additional property that is not GFE or GFP that the contractor or its subcontractors elect to include with the GFE and GFP.

H.11 CONTRACT ADJUSTMENT (COMPLETION FORM, COST REIMBURSABLE ONLY)

(a) The purpose of this clause is to set forth the terms and conditions governing adjustments to the estimated cost and fee, if any, to account for growth or shrinkage in the work to be performed.

(b) The Government's objective is to have the Statement of Work performed in the most efficient manner possible, consistent with the furnishing of high-quality services. One means of achieving this objective is to minimize changes, and thus reduce or eliminate the administrative costs to both parties that are caused by issuing, pricing, and negotiating changes. The contract adjustment provisions set forth herein are intended to achieve that objective, while at the same time compensating the contractor fairly for the furnishing of services that are within a reasonable range of the baseline work (including metrics) projected to be performed under the contract.

(c) Adjustment Provisions:

(1) The elements of the work described in the SOW are in some instances accompanied by "metrics." These data represent the Government's estimates of the level of services required, and are only intended to reflect the amount of activity anticipated for those elements of work. Workload sizing data do not constitute a limitation on the contractor's obligation to perform work in the areas to which they relate.

(2) Workload sizing data define the thresholds which must be met before the performance of work which exceeds or is less than the threshold may become the basis for a contract adjustment. Work performed under the contract which falls within a range of plus or minus 20 percent of the metrics will not be subject to contract adjustment (unless an adjustment is necessitated by some other provision of this contract). The fact that the contractor has performed work that is 20 percent above the metrics shall not relieve the contractor of its obligation to continue to perform such work to the extent it is required by the Government.

(3) An equitable adjustment (either upwards or downwards) will be made in the contract cost and fee provided for in this contract if the following conditions are met at the end of each contract period.

a. The contractor's proposal demonstrates that the cost incurred for the workload sizing data thresholds are in excess of or have not been met in one or more of the WBS/metrics by 20 percent; and

b. the net cost increase or decrease of all WBS/metrics combined is greater than $200,000; and

c. the contractor demonstrates in it's proposal that any increase in cost is attributable to increased effort in excess of the threshold(s) and is not reasonably attributable to an overrun of cost incurred on effort within the threshold(s) or to cost incurred on other work covered by the SOW.

(d) The contractor is responsible for: tracking the performance of work in each area; keeping current, complete, and accurate records regarding the quantum of work performed in relation to any metrics; making such records available to the Contractor Officer as may be requested from time to time; and submitting an adjustment proposal if the contractor believes the conditions of paragraph (c) above are met, or if requested by the Contracting Officer. If initiated by the contractor, the proposal shall be submitted within 90 days of the last day of the contract period. If requested by the Contracting Officer, the proposal shall be submitted within 90 days of the request.

[END OF SECTION]

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PART II - CONTRACT CLAUSES

SECTION I - CONTRACT CLAUSES

I.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE

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

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE

Firm-Fixed-Price Clauses:

52.216-18	OCT 1995	ORDERING
	Insert	Insert "May 1, 2006" through "April 30, 2009" in paragraph (a).
52.222-43	MAY 1989	FAIR LABOR STANDARDS ACT AND SERVICE CONTRACT ACT--PRICE ADJUSTMENT (MULTIYEAR AND OPTION CONTRACTS)
52.228-5	JAN 1997	INSURANCE--WORK ON A GOVERNMENT INSTALLATION
52.229-3	APR 2003	FEDERAL, STATE, AND LOCAL TAXES
52.232-1	APR 1984	PAYMENTS
52.232-8	FEB 2002	DISCOUNTS FOR PROMPT PAYMENT
52.232-11	APR 1984	EXTRAS
52.243-1	AUG 1987	CHANGES--FIXED PRICE (ALTERNATE V) (APR 1984)
52.245-2	MAY 2004	GOVERNMENT PROPERTY (FIXED-PRICE CONTRACTS) (ALT I) (APR 1984)
52.249-2	SEP 1996	TERMINATION FOR THE CONVENIENCE OF THE GOVERNMENT (FIXED PRICE)
52.249-8	APR 1984	DEFAULT (FIXED-PRICE SUPPLY AND SERVICE)

Cost-Reimbursement Clauses:

52.216-7	DEC 2002	ALLOWABLE COST AND PAYMENT
52.228-7	MAR 1996	INSURANCE--LIABILITY TO THIRD PERSONS
52.229-10	APR 2003	STATE OF NEW MEXICO GROSS RECEIPTS AND COMPENSATING TAX
52.232-22	APR 1984	LIMITATION OF FUNDS
52.233-3	JUN 1985	PROTEST AFTER AWARD (ALTERNATE I)
52.243-2	AUG 1987	CHANGES--COST-REIMBURSEMENT (ALTERNATE II) (APR 1984)
52.244-2	AUG 1998	SUBCONTRACTS (ALTERNATE I) (March 2005)
52.245-5	MAY 2004	GOVERNMENT PROPERTY (COST- REIMBURSEMENT, TIME-AND- MATERIAL, OR LABOR-HOUR CONTRACTS)
52.247-1	APR 1984	COMMERCIAL BILL OF LADING NOTATIONS
52.249-6	MAY 2004	TERMINATION (COST-REIMBURSEMENT)
52.249-14	APR 1984	EXCUSABLE DELAYS
52.251-2	JAN 1991	INTERAGENCY FLEET MANAGEMENT SYSTEM

VEHICLES AND RELATED SERVICES

Clauses applicable to both Firm-Fixed-Price and Cost-Reimbursement:

52.202-1	JUL 2004	DEFINITIONS
52.203-3	APR 1984	GRATUITIES
52.203-5	APR 1984	COVENANT AGAINST CONTINGENT FEES
52.203-6	JUL 1995	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT
52.203-7	JUL 1995	ANTI-KICKBACK PROCEDURES
52.203-8	JAN 1997	CANCELLATION, RESCISSION AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY
52.203-10	JAN 1997	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY
52.203-12	JUN 2003	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS
52.204-2	AUG 1996	SECURITY REQUIREMENTS
52.204-4	AUG 2000	PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER
52.204-7	OCT 2003	CENTRAL CONTRACTOR REGISTRATION
52.208-7	MAY 1986	TAGGING OF LEASED VEHICLES
52.208-8	APR 2002	REQUIRED SOURCES FOR HELIUM AND HELIUM USAGE DATA
52.208-9	JUL 2004	CONTRACTOR USE OF MANDATORY SOURCES OF SUPPLY OR SERVICES
52.209-6	JAN 2005	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT
52.211-5	AUG 2000	MATERIAL REQUIREMENTS
52.211-15	SEP 1990	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS
52.215-2	JUN 1999	AUDIT AND RECORDS--NEGOTIATION
52.215-8	OCT 1997	ORDER OF PRECEDENCE - UNIFORM CONTRACT FORMAT
52.215-11	OCT 1997	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA-- MODIFICATIONS
52.215-13	OCT 1997	SUBCONTRACTOR COST OR PRICING DATA - MODIFICATIONS
52.215-14	OCT 1997	INTEGRITY OF UNIT PRICES (OCT 1997)
52.215-15	OCT 2004	PENSION ADJUSTMENTS AND ASSET REVERSIONS
52.215-17	OCT 1997	WAIVER OF FACILITIES CAPITAL COST OF MONEY
52.215-18	OCT 1997	REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS
52.215-19	OCT 1997	NOTIFICATION OF OWNERSHIP CHANGES
52.215-21	OCT 1997	REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA - - MODIFICATIONS

52.219-4	OCT 2004	NOTICE OF PRICE EVALUATION PREFERENCE FOR HUBZONE SMALL BUSINESS CONCERNS
52.219-8	OCT 2000	UTILIZATION OF SMALL BUSINESS CONCERNS
52.219-9	AUG 2005	SMALL BUSINESS SUBCONTRACTING PLAN (ALT II) (OCT 2001)
52.219-16	JAN 1999	LIQUIDATED DAMAGES SUBCONTRACTING PLAN
52.219-23	JUNE 2003	NOTICE OF PRICE EVALUATION ADJUSTMENT FOR SMALL DISADVANTAGED BUSINESS CONCERNS The evaluation adjustment factor inserted in paragraph (b) (1) is 10%. The last sentence of paragraph (c) is filled in by the offeror or not filled in by the offeror as follows: _____ Offeror elects to waive the adjustment.
52.219-25	OCT 1999	SMALL DISADVANTAGED BUSINESS PARTICIPATION PROGRAM-DISADVANTAGED STATUS AND REPORTING
52.222-1	FEB 1997	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES
52.222-3	JUN 2003	CONVICT LABOR
52.222-4	JUL 2005	CONTRACT WORK HOURS AND SAFETY STANDARDS ACT - OVERTIME COMPENSATION
52.222-19	JUN 2004	CHILD LABOR--COOPERATION WITH AUTHORITIES AND REMEDIES
52.222-20	DEC 1996	WALSH-HEALEY PUBLIC CONTRACTS ACT
52.222-21	FEB 1999	PROHIBITION OF SEGREGATED FACILITIES
52.222-26	APR 2002	EQUAL OPPORTUNITY
52.222-29	JUN 2003	NOTIFICATION OF VISA DENIAL
52.222-35	DEC 2001	EQUAL OPPORTUNITY FOR SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS
52.222-36	JUN 1998	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES
52.222-37	DEC 2001	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS
52.222-39	DEC 2004	NOTIFICATION OF EMPLOYEE RIGHTS CONCERNING PAYMENT OF UNION DUES OR FEES
52.222-41	JUL 2005	SERVICE CONTRACT ACT OF 1965, AS AMENDED
52.223-3	JAN 1997	HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (ALTERNATE I) (JUL 1995) Insert "___TBD___" in paragraph (b).
52.223-5	AUG 2003	POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (ALTERNATE I) (AUG 2003) (ALTERNATE II) (AUG 2003)
52.223-10	AUG 2000	WASTE REDUCTION PROGRAM
52.223-12	MAY 1995	REFRIGERATION EQUIPMENT AND AIR CONDITIONERS

52.223-14	AUG 2003	TOXIC CHEMICAL RELEASE REPORTING
52.225-3	JAN 2005	BUY AMERICAN ACT-FREE TRADE AGREEMENTS-ISRAELI TRADE ACT
52.225-13	MAR 2005	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES
52.227-1	JUL 1995	AUTHORIZATION AND CONSENT (ALTERNATE I) (APR 1984)
52.227-2	AUG 1996	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT
52.227-14	JUN 1987	RIGHTS IN DATA--GENERAL As modified by 1852.227-14 NASA FAR Supplement (OCT 1995)
52.227-16	JUN 1987	ADDITIONAL DATA REQUIREMENTS
52.230-2	APR 1998	COST ACCOUNTING STANDARDS
52.230-6	NOV 1999	ADMINISTRATION OF COST ACCOUNTING STANDARDS
52.232-17	JUN 1996	INTEREST
52.232-18	APR 1984	AVAILABILITY OF FUNDS
52.232-23	JAN 1986	ASSIGNMENT OF CLAIMS
52.232-25	OCT 2003	PROMPT PAYMENT (ALTERNATE I) (FEB 2002)
52.232-34	MAY 1999	PAYMENT BY ELECTRONIC FUNDS TRANSFER--OTHER THAN CENTRAL CONTRACTOR REGISTRATION
	Insert "no later than 15 days prior to submission of the first request for payment" in Paragraph (b) (1).	
52.233-1	JUL 2002	DISPUTES (ALTERNATE I) (DEC 1991)
52.233-3	AUG 1996	PROTEST AFTER AWARD (ALTERNATE I) (JUN 1985)
52.233-4	OCT 2004	APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM
52.237-2	APR 1984	PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT, AND VEGETATION
52.237-3	JAN 1991	CONTINUITY OF SERVICES
52.239-1	AUG 1996	PRIVACY OR SECURITY SAFEGUARDS
52.242-1	APR 1984	NOTICE OF INTENT TO DISALLOW COSTS
52.242-3	MAY 2001	PENALTIES FOR UNALLOWABLE COSTS
52.242-4	JAN 1997	CERTIFICATION OF FINAL INDIRECT COSTS
52.242-12	JUN 2003	REPORT OF SHIPMENT (REPSHIP)
52.242-13	JUL 1995	BANKRUPTCY
52.243-6	APR 1984	CHANGE ORDER ACCOUNTING
52.244-5	DEC 1996	COMPETITION IN SUBCONTRACTING
52.245-18	FEB 1993	SPECIAL TEST EQUIPMENT
52.246-24	FEB 1997	LIMITATION OF LIABILITY-- HIGH VALUE ITEMS (See section J-4 for list)
52.246-25	FEB 1997	LIMITATION OF LIABILITY-- SERVICES
52.247-63	JUN 2003	PREFERENCE FOR U.S.-FLAG AIR CARRIERS
52.247-64	APR 2003	PREFERENCE FOR PRIVATELY OWNED U.S.-FLAG COMMERCIAL VESSELS
52.248-1	FEB 2000	VALUE ENGINEERING
52.251-1	APR 1984	GOVERNMENT SUPPLY SOURCES
52.253-1	JAN 1991	COMPUTER GENERATED FORMS

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

CLAUSE NUMBER	DATE	TITLE

Cost-Reimbursement Clauses:

1852.216-89	JUL 1997	ASSIGNMENT AND RELEASE FORMS

Clauses applicable to both Firm-Fixed-Price and Cost-Reimbursement:

1852.219-74	SEP 1990	USE OF RURAL AREA SMALL BUSINESSES
1852.219-75	MAY 1999	SMALL BUSINESS SUBCONTRACTING REPORTING
1852.219-76	JUL 1997	NASA 8 PERCENT GOAL
1852.223-74	MAR 1996	DRUG-AND ALCOHOL-FREE WORKPLACE
1852.228-75	OCT 1988	MINIMUM INSURANCE COVERAGE
1852.235-70	FEB 2003	CENTER FOR AEROSPACE INFORMATION
1852.237-70	DEC 1988	EMERGENCY EVACUATION PROCEDURES
1852.237-72	JUN 2005	ACCESS TO SENSITIVE INFORMATION
1852.237-73	JUN 2005	RELEASE OF SENSITIVE INFORMATION
1852.243-71	MAR 1997	SHARED SAVINGS

(End of clause)

I.2 APPROVAL OF CONTRACT (FAR 52.204-1) (DEC 1989)

This contract is subject to the written approval of the JSC Procurement Officer and shall not be binding until so approved.

(End of clause)

I.3 ORDER LIMITATIONS (FAR 52.216-19)(OCT 1995)

(a) *Minimum order*. When the Government requires supplies or services covered by this contract in an amount of less than $1000, the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.

(b) *Maximum order*. The Contractor is not obligated to honor-

(1) Any order for a single item in excess of $50M;

(2) Any order for a combination of items in excess of $50M; or

(3) A series of orders from the same ordering office within 7 days that together call for quantities exceeding the limitation in paragraph (b)(1) or (2) of this section.

(c) If this is a requirements contract (*i.e*., includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation (FAR)), the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum-order limitations in paragraph (b) of this section.

(d) Notwithstanding paragraphs (b) and (c) of this section, the Contractor shall honor any order exceeding the maximum order limitations in paragraph (b), unless that order (or orders) is returned to the ordering office within 7 days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

(End of clause)

I.4 INDEFINITE QUANTITY (FAR 52.216-22) (OCT 1995)

(a) This is an indefinite-quantity contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies and services specified in the Schedule are estimates only and are not purchased by this contract.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. The Contractor shall furnish to the Government, when and if ordered, the supplies or services specified in the Schedule up to and including the quantity designated in the Schedule as the "maximum." The Government shall order at least the quantity of supplies or services designated in the Schedule as the "minimum."

(c) Except for any limitations on quantities in the Order Limitations clause or in the Schedule, there is no limit on the number of orders that may be issued. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(d) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after 6 months beyond the completion of the contract specified in F.4.

(End of clause)

I.5 PAYMENT FOR OVERTIME PREMIUMS (FAR 52.222-2) (JUL 1990) (COST-REIMBURSEMENT ONLY)

(a) The use of overtime is authorized under this contract if the overtime premium does not exceed *$32,000 or the overtime premium is paid for work-

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;
(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;
(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or
(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall-
(1) Identify the work unit; e.g. ., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;
(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;
(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and
(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

* Insert either "zero" or the dollar amount agreed to during negotiations. The inserted figure does not apply to the exceptions in paragraph (a) (1) through (a) (4) of the clause.

(End of clause)

I.6 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (FAR 52.222-42) (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

Employee Class	Monetary Wage-Fringe Benefits
See Section J-3	

(End of clause)

I.7 SCA MINIMUM WAGES AND FRINGE BENEFITS APPLICABLE TO SUCCESSOR CONTRACT PURSUANT TO PREDECESSOR CONTRACTOR COLLECTIVE BARGAINING AGREEMENTS (CBA) (FAR 52.222-47) (MAY 1989)

An SCA wage determination applicable to this work has been requested from the U.S. Department of Labor. If an SCA wage determination is not incorporated herein, the bidders/offerors shall consider the economic terms of the collective bargaining agreement (CBA) between the incumbent Contractor "HTSI" and the INTERNATIONAL ASSOCIATION OF MACHINISTS AND AEROSPACE WORKERS, AFL-CIO labor union. If the economic terms of the collective bargaining agreement or the collective bargaining agreement itself is not attached to the solicitation, copies can be obtained from the Contracting Officer. Pursuant to Department of Labor Regulation, 29 CFR 4.1b and paragraph (g) of the clause at 52.222-41, Service Contract Act of 1965, as amended, the economic terms of that agreement will apply to the contract resulting from this solicitation, notwithstanding the absence of a wage determination reflecting such terms, unless it is determined that the agreement was not the result of arm's length negotiations or that after a hearing pursuant to section 4(c) of the Act, the economic terms of the agreement are substantially at variance with the wages prevailing in the area.

(End of clause)

I.8 DRUG-FREE WORKPLACE (FAR 52.223-6) (MAY 2001)

(a) *Definitions* . As used in this clause-

"Controlled substance" means a controlled substance in schedules I through V of section 202 of the Controlled Substances Act (21 U.S.C. 812) and as further defined in regulation at 21 CFR 1308.11 - 1308.15.

"Conviction" means a finding of guilt (including a plea of *nolo contendere*) or imposition of sentence, or both, by any judicial body charged with the responsibility to determine violations of the Federal or State criminal drug statutes.

"Criminal drug statute" means a Federal or non-Federal criminal statute involving the manufacture, distribution, dispensing, possession, or use of any controlled substance.

"Drug-free workplace" means the site(s) for the performance of work done by the Contractor in connection with a specific contract where employees of the Contractor are prohibited from engaging in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance.

"Employee" means an employee of a Contractor directly engaged in the performance of work under a Government contract. "Directly engaged" is defined to include all direct cost employees and any other Contractor employee who has other than a minimal impact or involvement in contract performance.

"Individual" means an offeror/contractor that has no more than one employee including the offeror/contractor.

(b) The Contractor, if other than an individual, shall- within 30 days after award (unless a longer period is agreed to in writing for contracts of 30 days or more performance duration), or as soon as possible for contracts of less than 30 days performance duration-

(1) Publish a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition;

(2) Establish an ongoing drug-free awareness program to inform such employees about-

(i) The dangers of drug abuse in the workplace;

(ii) The Contractor's policy of maintaining a drug-free workplace;

(iii) Any available drug counseling, rehabilitation, and employee assistance programs; and

(iv) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;

(3) Provide all employees engaged in performance of the contract with a copy of the statement required by paragraph (b) (1) of this clause;

(4) Notify such employees in writing in the statement required by paragraph (b) (1) of this clause that, as a condition of continued employment on this contract, the employee will-

(i) Abide by the terms of the statement; and

(ii) Notify the employer in writing of the employee's conviction under a criminal drug statute for a violation occurring in the workplace no later than 5 days after such conviction;

(5) Notify the Contracting Officer in writing within 10 days after receiving notice under subdivision (b)(4)(ii) of this clause, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee;

(6) Within 30 days after receiving notice under subdivision (b) (4) (ii) of this clause of a conviction, take one of the following actions with respect to any employee who is convicted of a drug abuse violation occurring in the workplace:

(i) Taking appropriate personnel action against such employee, up to and including termination; or

(ii) Require such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency; and

(7) Make a good faith effort to maintain a drug-free workplace through implementation of paragraphs (b) (1) through (b) (6) of this clause.

(c) The Contractor, if an individual, agrees by award of the contract or acceptance of a purchase order, not to engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance while performing this contract.

(d) In addition to other remedies available to the Government, the Contractor's failure to comply with the requirements of paragraph (b) or (c) of this clause may, pursuant to FAR 23.506, render the Contractor subject to suspension of contract payments, termination of the contract or default, and suspension or debarment.

(End of clause)

I.9 NOTICE OF RADIOACTIVE MATERIALS (FAR 52.223-7) (JAN 1997)

(a) The Contractor shall notify the Contracting Officer or designee, in writing, 5 days prior to the delivery of, or prior to completion of any servicing required by this contract of, items containing either (1) radioactive material requiring specific licensing under the regulations issued pursuant to the Atomic Energy Act of 1954, as amended, as set forth in Title 10 of the Code of Federal Regulations, in effect on the date of this contract, or (2) other radioactive material not requiring specific licensing in which the specific activity is greater than 0.002 microcuries per gram or the activity per item equals or exceeds 0.01 microcuries. Such notice shall specify the part or parts of the items which contain radioactive materials, a description of the materials, the name and activity of the isotope, the manufacturer of the materials, and any other information known to the Contractor which will put users of the items on notice as to the hazards involved (OMB No. 9000-0107).

(b) If there has been no change affecting the quantity of activity, or the characteristics and composition of the radioactive material from deliveries under this contract or prior contracts, the Contractor may request that the Contracting Officer or designee waive the notice requirement in paragraph (a) of this clause. Any such request shall-
(1) Be submitted in writing;
(2) State that the quantity of activity, characteristics, and composition of the radioactive material have not changed; and
(3) Cite the contract number on which the prior notification was submitted and the contracting office to which it was submitted.

(c) All items, parts, or subassemblies which contain radioactive materials in which the specific activity is greater than 0.002 microcuries per gram or activity per item equals or exceeds 0.01 microcuries, and all containers in which such items, parts or subassemblies are delivered to the Government shall be clearly marked and labeled as required by the latest revision of MIL-STD 129 in effect on the date of the contract.

(d) This clause, including this paragraph (d), shall be inserted in all subcontracts for radioactive materials meeting the criteria in paragraph (a) of this clause.

(End of clause)

I.10 OZONE-DEPLETING SUBSTANCES(FAR 52.223-11)(MAY 2001)

(a) *Definition* . "Ozone-depleting substance," as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as-
(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
(2) Class II, including, but not limited to, hydrochlorofluorocarbons.
(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR part 82, Subpart E, as follows:

Warning

Contains (or manufactured with, if applicable) * N/A , a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

* The Contractor shall insert the name of the substance(s).

(End of clause)

I.11 SUBCONTRACTS FOR COMMERCIAL ITEMS (FAR 52.244-6) (DEC 2004)

(a) *Definitions.* As used in this clause-

"Commercial item" has the meaning contained in Federal Acquisition Regulation 2.101, Definitions.

"Subcontract" includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.
(c)(1)The Contractor shall insert the following clauses in subcontracts for commercial items:
(i) 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 $500,000 ($1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
(ii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246).
(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001) (38 U.S.C. 4212(a));
(iv) 52.222-36, Affirmative Action for Workers with Disabilities (June 1998) (29 U.S.C. 793).
(v) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (Dec 2004) (E.O. 13201). Flow down as required in accordance with paragraph (g) of FAR clause 52.222-39).

(vi) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Apr 2003) (46 U.S.C. Appx 1241 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 flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.
(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

(End of clause)

I.12 SUBMISSION OF COMMERCIAL TRANSPORTATION BILLS TO THE GENERAL SERVICES ADMINISTRATION FOR AUDIT (FAR 52.247-67) (JUN 1997)

(a)(1) In accordance with paragraph (a)(2) of this clause, the Contractor shall submit to the General Services Administration (GSA) for audit, legible copies of all paid freight bills/invoices, commercial bills of lading (CBL's), passenger coupons, and other supporting documents for transportation services on which the United States will assume freight charges that were paid (i) by the Contractor under a cost-reimbursement contract, and (ii) by a first- tier subcontractor under a cost-reimbursement subcontract thereunder.

(2) Cost-reimbursement Contractors shall only submit for audit those CBL's with freight shipment charges exceeding $50.00. Bills under $50.00 shall be retained on-site by the Contractor and made available for GSA on-site audits. This exception only applies to freight shipment bills and is not intended to apply to bills and invoices for any other transportation services.

(b) The Contractor shall forward copies of paid freight bills/invoices, CBL's, passenger coupons, and supporting documents as soon as possible following the end of the month, in one package to the General Services Administration, ATTN: FWA, 1800 F Street, NW, Washington, DC 20405. The Contractor shall include the paid freight bills/invoices, CBL's, passenger coupons, and supporting documents for first-tier subcontractors under a cost-reimbursement contract. If the inclusion of the paid freight bill/invoices, CBL's passenger coupons, and supporting documents for any subcontractor in the shipment is not practicable, the documents may be forwarded to GSA in a separate package.

(c) Any original transportation bills or other documents requested by GSA shall be forwarded promptly by the Contractor to GSA. The Contractor shall ensure that the name of the contracting agency is stamped or written on the face of the bill before sending it to GSA.

(d) A statement prepared in duplicate by the Contractor shall accompany each shipment of transportation documents. GSA will acknowledge receipt of the shipment by signing and returning the copy of the statement. The statement shall show--

(1) The name and address of the Contractor;

(2) The contract number including any alpha-numeric prefix identifying the contracting office;

(3) The name and address of the contracting office;

(4) The total number of bills submitted with the statement; and

(5) A listing of the respective amounts paid or, in lieu of such listing, an adding machine tape of the amounts paid showing the Contractor's voucher or check numbers.

(End of Clause)

I.13 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

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

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

(End of clause)

I.14 SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION TECHNOLOGY RESOURCES (NFS 1852.204-76) (NOV 2004)

(a) The Contractor shall be responsible for Information Technology security for all systems connected to a NASA network or operated by the Contractor for NASA, regardless of location. This clause is applicable to all or any part of the contract that includes information technology resources or services in which the Contractor must have physical or electronic access to NASA's sensitive information contained in unclassified systems that directly support the mission of the Agency. This includes information technology, hardware, software, and the management, operation, maintenance, programming, and system administration of computer systems, networks, and telecommunications systems. Examples of tasks that require security provisions include:

(1) Computer control of spacecraft, satellites, or aircraft or their payloads;

(2) Acquisition, transmission or analysis of data owned by NASA with significant

replacement cost should the contractor's copy be corrupted; and

(3) Access to NASA networks or computers at a level beyond that granted the general public, e.g. bypassing a firewall.

(b) The Contractor shall provide, implement, and maintain an IT Security Plan. This plan shall describe the processes and procedures that will be followed to ensure appropriate security of IT resources that are developed, processed, or used under this contract. The plan shall describe those parts of the contract to which this clause applies. The Contractor's IT Security Plan shall be compliant with Federal laws that include, but are not limited to, the Computer Security Act of 1987 (40 U.S.C. 1441 et seq.) and the Government Information Security Reform Act of 2000. The plan shall meet IT security requirements in accordance with Federal and NASA policies and procedures that include, but are not limited to:

(1) OMB Circular A-130, Management of Federal Information Resources, Appendix III, Security of Federal Automated Information Resources;

(2) NASA Procedures and Guidelines (NPR) 2810.1, Security of Information Technology; and

(3) Chapter 3 of NPR 1620.1, NASA Security Procedural Requirements.

(c) Per the DRD-013, the contractor shall submit for NASA approval an IT Security Plan. This plan must be consistent with and further detail the approach contained in the offeror's proposal or sealed bid that resulted in the award of this contract and in compliance with the requirements stated in this clause. The plan, as approved by the Contracting Officer, shall be incorporated into the contract as a compliance document.

(d)(1)Contractor personnel requiring privileged access or limited privileged access to systems operated by the Contractor for NASA or interconnected to a NASA network shall be screened at an appropriate level in accordance with NPR 2810.1, Section 4.5; NPR 1620.1, Chapter 3; and paragraph (d)(2) of this clause. Those Contractor personnel with non-privileged access do not require personnel screening. NASA shall provide screening using standard personnel screening National Agency Check (NAC) forms listed in paragraph (d)(3) of this clause, unless contractor screening in accordance with paragraph (d)(4) is approved. 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 the government, interim access may be granted pending completion of the NAC.

(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" data 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 data 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 follows:

(i) IT-1: Fingerprint Card (FC) 258 and Standard Form (SF) 85P, Questionnaire for Public Trust Positions;

(ii) IT-2: FC 258 and SF 85, Questionnaire for Non-Sensitive Positions; and

(iii) IT-3: NASA Form 531, Name Check, and FC 258.

(4) The Contracting Officer may allow the Contractor to conduct its own screening of individuals requiring privileged access or limited privileged access provided the Contractor can demonstrate that the procedures used by the Contractor are equivalent to NASA's personnel screening procedures. As used here, equivalent includes a check for criminal history, as would be conducted by NASA, and completion of a questionnaire covering the same information as would be required by NASA.

(5) Screening of contractor personnel may be waived by the Contracting Officer for those individuals who have proof of --

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

(ii) Screening conducted by NASA within last three years; or

(iii) Screening conducted by the Contractor, within last three years, that is equivalent to the NASA personnel screening procedures as approved by the Contracting Officer under paragraph (d) (4) of this clause.

(e) 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 2810.1, Section 4.3 requirements. The contractor may use web-based training available from NASA to meet this requirement.

(f) The Contractor shall afford NASA, including the 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 a program of IT inspection, investigation and audit to safeguard against threats and hazards to the integrity, availability and confidentiality of NASA data or to the function of computer systems operated on behalf of NASA, and to preserve evidence of computer crime.

(g) The Contractor shall incorporate the substance of this clause in all subcontracts that meet the conditions in paragraph (a) of this clause.

(End of clause)

I.15 OMBUDSMAN (NFS 1852.215-84) (OCT 2003) (ALT I) (JUN 2000)

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

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

Randy K. Gish
2101 NASA Parkway
Houston, TX 77058
randy.k.gish@nasa.gov
phone: 281-483-0490 fax: 281-483-2200

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

(End of clause)

[END OF SECTION]

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PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

SECTION J - LIST OF ATTACHMENTS

ATTACHMENT	TITLE	PAGE
J-1	Award Fee Evaluation Plan	J-1.1
J-2	Data Requirements List (DRL) and Data Requirements Description (DRD)	J-2.1
J-3	U.S. Department of Labor Wage Determination/Collective Bargaining Economic Terms	J-3.1
J-4	List of Installation-Accountable Property, and Vehicles	J-4.1
J-5	Safety and Health Plan (Contractor Provided)	J-5.1
J-6	Quality Plan (Contractor Provided)	J-6.1
J-7	Phase In Plan (Contractor Provided)	J-7.1
J-8	Small Business Utilization Plan (Contractor Provided)	J-8.1
J-9	Environmental Compliance Plan (Contractor Provided)	J-9.1
J-10	WSTF Training Program Description	J-10.1
J-11	Pressure Vessel Systems	J-11.1
J-12	Workload Data	J-12.1

PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

ATTACHMENT J-1 - AWARD FEE EVALUATION PLAN

Test and Evaluation Contract

Award Fee Evaluation Plan

1.0 INTRODUCTION

In accordance with the provisions of the Federal Acquisition Regulation (FAR) and the NASA and JSC policies, an award fee evaluation procedure is hereby established to evaluate Contractor performance and determine the award fees to be earned and payable under this contract. The fee arrangement outlined in this plan has been established to motivate the Contractor to strive for excellence in the quality and timeliness of performance, subcontracting goals, safety, and cost. The payment of any award fee is contingent upon compliance with contractual requirements and performance to the degree specified in Appendix 1.

The Contractor's performance will be evaluated by the Government in accordance with the procedures set forth below at the expiration of each period specified in Appendix 3. The evaluation to be performed by the Government will be based on the Government's assessment of the Contractor's accomplishment of the various areas of work covered by the SOW in accordance with the criteria, weightings, procedures, and other provisions set forth below. The award fee evaluation process will include both objective and subjective assessments of Contractor performance. Ordinarily, award fee applies only to cost reimbursement portions of a contract. For the evaluations under this contract, the Government may consider the Contractor's performance under the fixed price orders. However, performance on fixed price orders will not be part of the cost performance evaluation for award fee.

Performance determinations will be made at the end of each 6-month evaluation period as shown in Appendix 3. For each period, the Contractor may earn award fee from a minimum of zero dollars to the available award fee shown in Appendix 3. Contractor will be informed of any changes in evaluation factors or weightings prior to the affected award fee period.

Each award fee evaluation is considered to be final. Any unearned award is lost and cannot be moved into subsequent fee evaluation periods. An overall performance evaluation and fee determination of zero may be made for any evaluation period when there is a major breach of safety or security as defined in NFS 1852.223-75, Major Breach of Safety or Security.

The Government shall pay fee to the Contractor in accordance with Clause G.2 entitled, "Award Fee for Service Contracts".

2.0 ORGANIZATION STRUCTURE

2.1 PERFORMANCE EVALUATION BOARD INTEGRATION TEAM (PEB-IT)

The Performance Evaluation Board Integration Team (PEB-IT) will be composed of the contract management team including the Contracting Officer (CO) and Contracting Officer's Technical Representative (COTR). The COTR will be the focal point for the

accumulation and development of award fee evaluation technical reports, reviews, and presentations. The Contracting Officer will be the focal point for Contractor performance evaluations relating to contract management. The PEB-IT will evaluate Contractor performance using the evaluation factors listed in Section 4.0, Evaluation Criteria and Weighting, of this plan.

The PEB-IT will provide the Contractor interim performance evaluations a minimum of every three months (after 5 months for the first evaluation period, includes phase-in). The intent of these interim evaluations is to discuss specific areas where future performance improvement is necessary or where performance has excelled.

The PEB-IT will prepare a 6-month evaluation report for review by the Performance Evaluation Board (PEB) for each evaluation period (after 8 months for the first evaluation period, includes phase-in). This report will include a recommended adjective rating and numerical score representing the Contractor's performance for the period evaluated.

2.2 PERFORMANCE EVALUATION BOARD (PEB)

The PEB will be appointed by the Fee Determination Official (FDO) or designee. A PEB, comprised of selected technical and contract management personnel of NASA, will evaluate the Contractor's performance after each evaluation period to determine whether, and to what extent, the Contractor's performance during the evaluation period is deserving of the payment of award fee. The PEB, at the end of each evaluation period, will prepare a summary of the evaluations for review by the Fee Determination Official (FDO). This summary report will include a recommended adjective rating and numerical score representing the Contractor's performance for the period evaluated.

2.3 FEE DETERMINATION OFFICIAL (FDO)

The FDO, a senior NASA official, will determine the Contractor's performance score in accordance with the procedures set forth below. After considering available and pertinent information and recommendations, the FDO will make a performance determination for each period in accordance with the provisions of this plan and of Contact Section B.3 entitled, "Estimated Cost/Price and Fee."

3.0 EVALUATION PROCEDURES

Award fee evaluation periods shall be 6 months in length; except for period 1 which is 8 months in length (includes phase-in). Contractor performance will be assessed at the mid-point and at the end of each evaluation period. (Period 1 mid-point assessment shall be conducted at the 5th month, includes phase-in). The Government may provide Contractor performance feedback to the Contractor at any time during the evaluation period.

a. The Contractor may provide recommended areas of emphasis and weightings for consideration by the Government to be used for the ensuing evaluation period no

later than 45 days prior to the start of each award fee evaluation period (for the first evaluation period this shall be construed as 30 days prior to the end of the phase-in period). Consideration will be given to the Contractor's recommendations; however, it is the Government's responsibility to establish the specific areas of emphasis for each evaluation period.

b. The Government may unilaterally identify selected areas of emphasis and prioritize their relative importance. These areas of emphasis will be communicated to the Contractor by the CO in writing 30 days prior to the beginning of the applicable evaluation period (for the first evaluation period this shall be construed as 20 days prior to the end of the phase-in period). Emphasis will be directed at particular areas under the contract, which appear to the Government to deserve special attention and will be used in judging the Contractor's performance. These areas of emphasis will not necessarily cover the entire spectrum of performance that will be evaluated in determining award fee dollars earned. Other pertinent factors included under the contract and general factors bearing upon overall performance will be considered as the facts and circumstances of each period may require.

c. The Contractor may provide a self-evaluation report to the Contracting Officer within 5 days after the end of a performance period. The PEB-IT will not submit its recommendation to the PEB until (1) the Contractor's self-evaluation report has been received and considered, or (2) the Contractor has provided written notification that a self-evaluation report will not be submitted, or (3) the deadline for its submission has expired.

d. Promptly after the end of each six-month evaluation period, the PEB-IT shall meet to consider all of the performance information it has obtained. At the meeting, the PEB-IT will summarize its preliminary findings and recommendations in the Performance Evaluation Board Integration Team Report (PEB-ITR). Included with the report will be an adjective rating and a recommended performance score. The report, adjective rating, and recommended performance score will be presented to the PEB.

e. The PEB shall meet subsequent to the PEB-IT and consider all of the performance information it has obtained. At the PEB meeting, the contractor may provide a self-evaluation presentation (a copy of which shall be provided to the PEB) not to exceed 30 minutes in length.

f. The PEB will summarize its preliminary findings and recommendations in the Performance Evaluation Board Report (PEBR). Included with the report will be an adjective rating and a recommended performance score. The report, adjective rating, and recommended performance score will be presented to the FDO.

g. The Contractor will be notified of the PEB evaluation, provided copies of the PEBR, and provided the Preliminary Award Fee Determination. The Contractor shall provide a written response to the Contracting Officer within 5 calendar days stating acceptance or indicating a need for further FDO consideration. If the Contractor takes exception to the PEB findings, such exception shall be stated in writing and provided to the Contracting Officer within 5 working days from the date that the PEB findings were provided to the Contractor. The Contractor may provide additional information for consideration by the FDO. Such information

shall be delivered in writing to the Contracting Officer within 5 calendar days of notification to the contractor of the recommended rating and score.

h. The FDO will consider the recommendations of the PEB-IT, the PEB, the PEBR, information provided by the Contractor, if any, and any other pertinent information in determining performance scores. The FDO's determination of the scores will be stated in a written Award Fee Determination and provided to the Contractor by the Contracting Officer.

i. The FDO will not make a performance determination prior to the expiration of the 5 calendar day period prescribe above for Contractor submissions unless the Contractor has affirmatively indicated, in writing, that no further Contractor submission will be made.

j. The Contractor shall submit to the Contracting Officer a Corrective Action Plan (CAP) for all identified weaknesses noted in the PEB report or adverse objective performance metrics identified by the Government as part of the evaluation. The CAP shall be submitted within 15 working days after the final performance determination for each evaluation period for concurrence by the Contracting Officer and the COTR.

4.0 EVALUATION CRITERIA AND WEIGHTING

Contractor performance evaluations will be based upon objective and subjective assessments of major elements of Contractor performance including cost. Objective performance metrics will be developed and used together with subjective award fee evaluations to arrive at an overall recommended numerical and adjective rating for the period.

The criteria for evaluation of Contractor performance for determination of award fee is listed below. The Government may unilaterally modify the award fee performance evaluation factors and performance evaluation areas applicable to the evaluation period. The Contracting Officer shall notify the Contractor in writing of any such changes prior to the start of the relevant evaluation period.

Evaluation Criteria	**Weighting**
1) Technical and Management Performance	45%

Quality of Work
Schedule Performance
Program Management (including ACA's)
Environmental
Contractor Efficiency Initiatives

Performance criterion includes all aspects of quality and schedule based on objective evidence demonstrating both technical and management performance. For technical performance, emphasis will be placed on the SOW and Delivery Orders.

Compliance with Environmental Requirements criterion includes all aspects of environmental compliance issues primarily based on objective evidence demonstrating performance.

2) Subcontracting Goals Performance 15%

The Subcontracting Goals criterion includes evaluation of the Contractor's success in achieving or surpassing the subcontracting goals specified in the contract.

3) Cost Performance 30%

Cost criterion includes evaluation of actual cost performance relative to negotiated contract values including detailed variance analyses.

4) Safety and Health 10%

Compliance with Safety and Health Requirements criterion includes all aspects of safety and health compliance issues primarily based on objective evidence demonstrating performance.

Notwithstanding any of the above, a major breach of safety or security, as defined by clause 1852.223-75 of this contract, may result in an award fee score of zero for the affected evaluation period.

In order to earn any award fee, the Contractor must receive a numerical rating of 61 or greater. Appendix 1, Evaluation Definition, provides the performance level definition adjective ratings and corresponding numerical scores that will be used in performance evaluations. The numerical grade ranges corresponding to these adjective ratings and their conversion to total award fee earned are set forth in Appendix 2. Appendix 3 provides the distribution of the available award fee for each evaluation period.

5.0 MAXIMUM AVAILABLE AWARD FEE POOL

The maximum available award fee is identified in Clause B.3. The award fee by period is identified in Appendix 3, Award Fee Distribution.

6.0 PROVISIONAL PAYMENT OF AWARD FEE

Pending a determination of the amount of award fee earned for periodic evaluations, a portion of the available award fee for that period will be provisionally paid to the Contractor on a monthly basis, in accordance with contract Clause G.2 entitled "Award Fee for Service Contracts."

APPENDIX 1- EVALUATION DEFINITIONS

ADJECTIVE RATING	RANGE OF POINTS	DESCRIPTION
Excellent	100 - 91	Of exceptional merit; exemplary performance in a timely, efficient and economical manner; very minor (if any) deficiencies with no adverse effect on overall performance.
Very Good	90 - 81	Very effective performance, fully responsive to contract; contract requirements accomplished in a timely, efficient and economical manner for the most part; only minor deficiencies.
Good	80 - 71	Effective performance; fully responsive to contract requirements; reportable deficiencies, but with little identifiable effect on overall performance.
Satisfactory	70 - 61	Meets or slightly exceeds minimum acceptable standards; adequate results; reportable deficiencies with identifiable, but not substantial, effects on overall performance.
Poor/Unsatisfactory	60 - 0	Does not meet minimum acceptable standards in one or more areas; remedial action required in one or more areas; deficiencies in one or more areas, which adversely affect overall performance.

APPENDIX 2 - PERFORMANCE SCORE CONVERSION CHART

WEIGHED PERFORMANCE SCORE		PERCENTAGE OF AVAILABLE AWARD FEE
100		100%
99		99
98		98
97		97
96	Excellent	96
95		95
94		94
93		93
92		92
91		91
90		90
89		89
88		88
87		87
86	Very Good	86
85		85
84		84
83		83
82		82
81		81
80		80
79		79
78		78
77		77
76	Good	76
75		75
74		74
73		73
72		72
71		71
70		70
69		69
68		68
67		67
66	Satisfactory	66
65		65
64		64
63		63
62		62
61		61
60 and below		0

APPENDIX 3 – AWARD FEE DISTRIBUTION

Award Fee Period	Evaluation Periods	Estimated Award Fee Available
1	March 1, 2006 – October 31, 2006	$142,317.86
2	November 1, 2006 – April 30, 2007	$142,317.86
3	May 1, 2007 – October 31, 2007	$143,357.54
4	November 1, 2007 – April 30, 2008	$143,357.54
5	May 1, 2008 – October 31, 2008	$140,520.89
6	November 1, 2008 – April 30, 2009	$140,520.89
7	May 1, 2009 – October 31, 2009	$144,442.23
8	November 1, 2009 – April 30, 2010	$144,442.23
9	May 1, 2010 – October 31, 2010	$147,927.14
10	November 1, 2010 – April 30, 2011	$147,927.14
	TOTAL	$1,437,131.33

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PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

ATTACHMENT J-2 - DRL

TEC DATA REQUIREMENTS LIST (DRL)

(See reverse for instructions)
Based on JSC-STD-123

Page 1 of 6

a. Title of Contract, Project, SOW, etc.	b. Contract/RFP No.	c. DRL Date/Mod Date
Test and Evaluation Contract	NNJ06HC01C	April 26, 2005

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
001	Project Reporting	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	WK/MO		30 days Contract start date	Elec	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Project Manager
2) Contracting Officers Technical Representative
3) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
002	Safety and Health Plan (WSTF TEC)	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		Proposal	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) NS/Safety & Test Operations
2) NS3/S&MA – WSTF
3) SD/Occupational Health
4) Contracting Officers Technical Representative

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
003	Quality Plan	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		Proposal	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) NS3/WSTF Safety & Mission Assurance
2) NASA, TEC, and FOSC Management System Representatives
3) RA/Chief Engineer
4) Contractin Officer's Technical Representative

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

a. Title of Contract, Project, SOW, etc.	b. Contract/RFP No.	c. DRL Date/Mod Date
Test and Evaluation Contract	NNJ06HC01C	April 26, 2005

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
004	Monthly Maintenance Report	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	MO		Upon contract start	Othe	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer's Technical Representative
2) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD. *Format for these reports will be reviewed and subject to approval by COTR.

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
005	Ordnance Inventory Management Report	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	QU		Upon contract start		See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) NS3/WSTF Safety & Mission Assurance Office
2) RC/Engineering Office
3) Contracting Officer's Technical Representative

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
006	Equipment Replacement Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		30 days Contract start	Elec	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer's Technical Representative
2) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

Page ____ of ____

a. Title of Contract, Project, SOW, etc.	b. Contract/RFP No.	c. DRL Date/Mod Date
Test and Evaluation Contract	NNJ06HC01C	April 26, 2005

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
007	Work Breakdown Structure and Dictionary	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	RT		Proposal*	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer's Technical Representative
2) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.
* Submitted with proposal. Final revision delivered 30 days following award.

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
008	Contract Management Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	RT		Proposal*	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer
2) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.
* Submitted with proposal. Final revision delivered 90 days following award.

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
009	Overall Program Reporting Plan	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AR		Proposal*	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) RA/Management Representative
2) Contracting Officer's Technical Representative

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.
* Submitted with proposal. Final revision delivered 90 days following award.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

a. Title of Contract, Project, SOW, etc.	b. Contract/RFP No.	c. DRL Date/Mod Date
Test and Evaluation Contract	NNJ06HC01C	April 25, 2005

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
010	NF533 Cost and Data Reporting	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		See 9.*	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) LF6/Cost Accounting
2) LI/Budget/Program Analyst
3) Contracting Officer

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.
* 533M due no later than 30 days after the incurrence of cost.
* 533Q within 30 days after authorization to proceed.

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
011	Small Business Subcontracting Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		Proposal	E	See below*

8. Distribution *(Continue on a blank sheet if needed)*
Distribution specified below plus additional distribution per Contracting Officer Letter.
- Initial – as specified in the Proposal instructions
- Final – Contracting Officer, COTR, Task Manager
- Update – Contracting Officer, COTR, Task Manager

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.
* Per instructions

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
012	Reprocurement Data Package	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		Upon CO Direction	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media distribution may also be indicated within each DRD.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

Page 5 of 6

a. Title of Contract, Project, SOW, etc.	b. Contract/RFP No.	c. DRL Date/Mod Date
Test and Evaluation Contract	NNJ06HC01C	April 26, 2005

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
013	Contractor Security Management Plan	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AN		Upon Transition Start	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) RC/WSTF Chief of Security
2) Contracting Officer's Technical Representative
3) RA/WSTF Computer Security Officer

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
014	Government Property Management Plan	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	RT		30 days after Transition Start	E	See below*

8. Distribution *(Continue on a blank sheet if needed)*
1) Property Administrator
2) Contracting Officer
3) Contracting Officers Technical Representative
4) As specified in DRD

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.
*See DRD for number.

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
015	Wage/Salary and Fringe Benefit Data	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AN*		Upon Contract Start	Elec	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.
* Subsequent deliveries 90 days prior to anniversary date of contract.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

Page 6 of 6

a. Title of Contract, Project, SOW, etc.	b. Contract/RFP No.	c. DRL Date/Mod Date
Test and Evaluation Contract	NNJ06HC01C	April 26, 2005

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
016	Notification of Potential Labor Dispute & Contingency Strike Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	RT		Upon Contract Start	Elec	See #8
	8. Distribution *(Continue on a blank sheet if needed)* 1) BA2/Contract Labor Relations Officer 2) Contracting Officer		9. Remarks All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.				
017	Environmental Compliance Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AN		Proposal*	E/HC	See #8
	8. Distribution *(Continue on a blank sheet if needed)* 1) RC/Engineering Environmental Program Manager 2) RA/Contracting Officers Technical Representative		9. Remarks All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD. * Submitted with proposal. Final revision delivered 30 days following award. Subsequent revisions are subject to NASA review and approval.				
018	Information Technology (IT) Capital	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AN		Upon Transition Start	E/HC	See #8
	8. Distribution *(Continue on a blank sheet if needed)* 1) RA/Chief Information Officer 2) RA/Contracting Officers Technical Representative		9. Remarks All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.				

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

Short Form Instructions for Completing JSC Form 2323 & 2323A

DRL IDENTIFICATION

a. Title - Enter nomenclature descriptive of activity to which the DRL pertains, such as project, contract, statement of work, or request for proposal.
b. Contract/RFP Number - Enter contract number or RFP number, if applicable.
c. Date - Enter DRL preparation date as follows: Month-Day-Year. Subsequent modification dates may also be entered in this block.

LINE ITEM IDENTIFICATION

1. **Line Item No.** - Number line items sequentially, 1 through 999. Items 1, 2, 3, 4 are preprinted on JSC Form 2323. JSC Form 2323A is numbered 5 and following.

2. **DRD Title** - Enter DRD title from block 1 of JSC Form 2341.

3. **Data Type** - Check the appropriate data type. Additional detail needed to clarify types or define subtypes may be added in block 9, REMARKS.

   (1) Written Approval - Data requiring written approval by the NASA OPR before implementation into procurement or development program.
   (2) Mandatory Submittal - Data submitted to NASA for coordination, information, review, and/or management control.
   (3) Submittal upon Request - Data prepared and retained by respondent to be made available to requiring organization upon request.

4. **Frequency** - Enter frequency of submittal code as follows:

Code	*Description*	*Code*	*Description*	*Code*	*Description*
AD	As Directed	DA	Daily	RD	As Released
AN	Annually	DD	Deferred Delivery	RT	One Time and Revisions
AR	As Required	MO	Monthly	SA	Semi-Annually
BE	Biannually (Every other yr.)	OT	One Time	TY	Three Per Year

BM	Bimonthly (Every other mo.)	PV	Per Vehicle	UR	Upon Request
BW	Biweekly (Every other week)	QU	Quarterly	WK	Weekly

5. **As-Of Date** - If reports are of a recurring nature, give as-of date (cutoff date and due date: e.g., 15/1 indicated input cutoff date of 15th and due date of 1st). Amplify in Remarks, Item 9, if necessary.

6. **First Submittal** - Enter Month/Day/Year of initial submittal. If calendar date is not scheduled, enter number of days preceding or following event to which data requirement is related (e.g., 90 days prior to launch). Amplify in Remarks, Item 9, if necessary.

7. **Copies** - Complete 7a and 7b as specified below.

   a. Type - Enter code as follows:

Code	*Definition*	*Code*	*Definition*
PRINT	Printed Copies	MICRO	Microfilm Aperture Cards
REPRO	Reproducible Copy	OTHER	Explain Remarks, Item 9
HC	Hard copy	E	Electronic

   b. Number - Enter number of copies required opposite each type of copy furnished.

8. **Distribution** - List current codes or addresses and names of organizations, which are to receive copies of documents, generated under the DRD. If more than one copy is required, so indicate in parenthesis by recipient's name. Continue on a blank sheet if necessary.

9. **Remarks** - Enter in this space.

a. Reference to specific work statement paragraph as applicable to explain relationship of data to task.
b. Additional submittal information, if necessary.
c. Comments which explain an entry made in any block of the DRL.
d. OPR for a specific DRD, if different from contract COTR.

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JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes)
Project Reporting	4/25/2005	001	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
Data used to assess the status of individual WSTF projects and overall status of all projects as an integrated group.	☒ Technical ☐ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
WSP 09-0014 and MSM	

8. Preparation Information (*Include complete instructions for document preparation*)

The weekly and monthly reporting requirements defined below apply to all ordered projects. If the approved Delivery Order specifies different reporting requirements, than those specified in the Delivery Order take precedence over that specified in this DRD.

1. **Weekly**:

   Provide an earned value (EV) report (cost and schedule) on project performance to the NASA Project Manager. (For Cost Reimbursement Only)

2. **Monthly**:

   2.1. For all ordered projects, provide and/or present a Project Status briefing that contains the following information:

   - Project Description
   - Significant Accomplishments
   - EV data (inception to date)
   - Earned Value Variance Explanation
   - Schedule and Cost Recovery Plan (if applicable)
   - Scope Changes
   - Documentation Status (e.g., Project Plan, Test Plan, and Safety/Readiness Reviews)
   - External Risks
   - Internal Risks
   - Safety issues
   - Resources Issues

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

2.2. Provide an integrated project report that summarizes the earned value performance of all active Type 1 projects by fund source and provides an explanation of the aggregate variances with an explanation.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Safety and Health Plan (WSTF Test & Evaluation Contract)	4/25/2005	002	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
Establishes Safety and Health Plan for contractors providing support to JSC WSTF	☐ Technical ☐ Administrative ☒ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
NPR 8715.3; JPR 1700.1; WSTF Management System Manual	Safety & Health Plan (WSTF FOSC DRD 3.2)

8. Preparation Information (*Include complete instructions for document preparation*)

APPLICABLE DOCUMENTS:
OSHA TED 8.4, Voluntary Protection Program (VPP) Policies and Procedures Manual
NPR 8715.3, NASA Safety Manual
NASA STD 8719.11, Fire Protection
NPR 8715.2, Emergency Preparedness
JSC 17773, Instructions for Preparation of Hazard Analysis for JSC Ground Operations
JPR 1700.1, JSC Safety and Health Handbook
'STF Management System Manual, Section 4.2.1.7 Safety; Section 4.2.1.8 Emergency anagement
WSTF Standard Procedure WSP 25-0002, Safety Planning and Compliance

NOTES:

UPON NASA APPROVAL, THE CONTRACTOR'S SAFETY, HEALTH, PLAN BECOMES A PART OF THE CONTRACT.

THE CONTRACTOR'S PLAN SHOULD ADDRESS INTEGRATION OF SAFETY AND HEALTH ACTIVITIES FOR ALL WSTF AND CONTRACTOR ENTITIES SUBJECT TO SIMILAR HAZARDS FOR THE MULTIPLE EMPLOYER WORK ENVIRONMENT ON NASA WSTF PROPERTY.

Frequency of submission: One time only (with the proposal) and a minimum of annual revisions.

Distribution:
After the plan is approved by NASA, the Contracting Officer will retain the original signed plan in the contract file. The contractor will send additional copies to each of the following:
NS/Safety and Test Operations Division (2 copies)
NS3/Safety and Mission Assurance/WSTF (4 copies)

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

J13/Occupational Health Officer (1 copy)
JA131 / Environmental Services (1 copy)
Contracting Officer's technical Representative (1 copy)

Subsequent revisions to the plan: The contractor may revise the plan at any time or at the direction of the Government. Revisions are subject to Government review and approval. Distributions of approved revisions will be as described above.

Other deliverables: The requirements for this plan as detailed in the instructions on plan content below include instructions for specific reports and data to be submitted to the Government. These instructions are to be included in the plan and represent contractual commitments by the contractor to provide this information.

Format:

1. Cover page - to include as a minimum the signatures of Contractor's project manager and designated safety official (if different); upon contract award and for subsequent revisions, the plan shall be submitted for approval by the NASA Contracting Officer and NS3/WSTF Safety & Mission Assurance. Other signatures may be required at the discretion of the Government.

2. Table of Contents. See content below.

Body of plan - as required. Contractor's format is acceptable but should be traceable to the elements of the content below.

4. When preparing its plan, the offeror/contractor is expected to review all the items below and tailor its plan accordingly. The plan will clearly identify those resources to be provided by the contractor and provided by the Government. This review and supporting rationale is to be made available to the Government as part of this plan. It can be documented as a checklist or outline, inserted directly in the body of the plan, or in any format developed by the contractor that clearly conveys the results of this review including the basis for any underlying assumptions.

Authority: FAR 52.223-1 through -5, -10; NFS 18-23.70, 18-52.223-70, 18-52.223-73.

Content:

1. **MANAGEMENT LEADERSHIP AND EMPLOYEE PARTICIPATION**

1.1. Policy: Provide the contractor's safety and health policy statement with the plan. Compare the contractor's policy statement with those of NASA and OSHA and discuss any differences.

1.2. Goals and Objectives: Describe specific safety and health goals and objectives to be met. Establish appropriate goals based on current trends and needs associated with aerospace test

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

,d evaluation industry practices. Discuss status of safety program using the NASA "Performance Evaluation Profile" or OSHA Voluntary Protection Program safety performance criteria. Describe the contractor's approach to continuous improvement (including milestone schedule) using level 5 of the Performance Evaluation Profile as a guideline.

1.3. Management Leadership: Describe management's procedures for implementing its commitment to safety and health through visible management activities and initiatives including a commitment to exercise management prerogatives to ensure workplace safety and health. Describe processes and procedures to making this visible in all contract and subcontract activities and products. Include a statement from the project manager or designated safety official indicating that the plan will be implemented as approved and that the project manager will take personal responsibility for its implementation.

1.4. Employee Involvement: Describe procedures to promote and implement employee (e.g., non-supervisory) involvement in safety and health program development, implementation and decision-making. Describe the scope and breadth of employee participation to be achieved so that approximate safety and health risk areas of the contract are equitably represented.

1.5. Assignment of Responsibility: Describe line and staff responsibilities for safety and health program implementation. Identify any other personnel or organization that provides safety services or exercises any form of control or assurance in these areas. State the means of communication and interface concerning related issues used by line, staff, and others (such as documentation, concurrence requirements, committee structure, sharing of the work site with NASA and other contractors, or other special responsibilities and support.) As a minimum, the contractor will identify the following:

.1. *Safety Representative* - identify by title the individual who will be trained and certified in accordance with WSTF to be responsive to Center-wide safety, health, environmental, and fire protection concerns and goals, and who will participate in meetings and other activities related to the WSTF Safety and Health program.

1.5.2. *Company Physician/Occupational Injury/illness case manager* - identify a point of contact who is responsible for the transfer or receipt of company medical data and who will be the primary contact for the company in the event any employee suffers a work related injury or illness (such as the company physician) by name, address, and telephone number to the WSTF Medical Dispensary. This will facilitate communication of medical data to contractor management. Prompt notification to the WSTF Medical Dispensary shall be given of any changes that occur in the identity of the point of contact. A letter to the JSC Occupational Health Office can accomplish initial identification of point of contact and subsequent updates with a copy sent to the Contracting Officer. The initial letter is to be received by the Government prior to contract start. Describe how the WSTF Medical Dispensary will be utilized to fulfill occupational health monitoring and employee wellness programs.

1.5.3. *Building Fire Wardens* - provide a roster of fire wardens (their names, telephone numbers, pagers, and mail codes) that will fulfill the requirements of the WSTF Fire Safety Program stipulated in WSP 25-0003. Contractor fire wardens are needed to facilitate coordination of related issues with NASA facility managers and emergency planning and response officials

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

.4. and their representatives. Fire wardens will be trained in accordance with WSP 25-0003. The roster shall be maintained by letter to NS3/WSTF Safety & Mission Assurance, with copies to the Contracting Officer and Contracting Officer's Technical Representative. The initial letter shall be received by the Government not later than 15 days after contract start.

1.5.5. *Designated Safety Official* - identify by title the official(s) responsible for implementation of this plan and all formal contacts with regulatory agencies and with NASA.

1.6. Provision of Authority: Describe consistency of the plan for compliance with applicable NASA and WSTF requirements and contractual direction as well as applicable Federal, state, and local regulations and how compliance will be maintained throughout the life of the contract.

1.7. Accountability: Describe procedures for ensuring that management and employees will be held accountable for implementing their tasks in a safe and healthful and environmentally compliant manner. The use of traditional and/or innovative personnel management methods (including discipline, motivational techniques, or any other technique that ensures accountability) will be referenced as a minimum and described as appropriate.

1.8. Program Evaluation: The program evaluation consists of:

1.8.1. Participation in a Performance Evaluation Profile (PEP) survey at the request of the Government. The PEP survey normally will be scheduled and administered at the discretion of the Government. If the Government chooses not to do the PEP in a given year, the contractor may at its option initiate its own PEP by contacting JSC Occupational Safety, code NS2, for assistance.

1.8.2. [Reserved.]

.3. *A written self-evaluation report to be delivered by September 30 of each year* - The self-evaluation shall follow the VPP program evaluation report format found in OSHA TED 8.4, Voluntary Protection Programs (VPP) Policies and Procedures Manual, Appendix D, "Annual Submissions", as mandated by the cognizant OSHA regional office. Contractors who have submitted a written self-evaluation as a VPP site may submit their original report to OSHA in lieu of writing a new self -evaluation provided that all action plans and status are updated. The self evaluation shall as a minimum cover the elements of the approved safety and health plan.

1.8.4. *Miscellaneous Reports* - The contractor will acknowledge the following as standing requests of the Government and to be handled as described below.

a. Roster of Terminated Employees. Identify personnel terminated by contractor. Send to the WSTF equivalent, no later than 30 days after the end of each contract year or at the end of the contract, whichever is applicable. At the contractor's discretion, the report may be submitted for personnel changes during the previous year or cumulated for all years. Information required:

(1) Date of report, contractor identity and contract number

(2) For each person listed, provide name, social security number, and date of termination

(3) Name, address, and telephone number of contractor representative to be contacted for questions or other information

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

b. Material Safety Data. The contractor shall prepare and/or deliver Material Safety Data for hazardous materials brought onto Government property or included in products delivered to the Government. This data is required by the Occupational Safety and Health Administration (OSHA) regulation, 29 CFR 1910.1200, "Hazard Communication", EPA "Emergency Planning and Community Right-to-Know (EPCRA, ref. 40 CFR 302, 311, 312); and Federal Standard 313 (or FED-STD-313), "Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities", as revised. One (1) copy of each MSDS will be sent upon receipt of the material for use on NASA property to the WSTF Central Repository in accordance with WSI 25SW-0002, along with information on new or changed locations and/or quantities normally stored or used. If the MSDS arrives with the material and is needed for immediate use, the MSDS shall be delivered to the Central Repository by close of business of the next working day after it enters the site.

c. Hazardous Materials Inventory. The contractor shall compile an inventory report of all hazardous materials it has located on Government property not less than annually, and which is within the scope of 29 CFR 1910.1200, "Hazard Communication"; and Federal Standard 313 (or FED-STD-313), "Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities", as revised. The call for this annual inventory and instructions for delivery shall be accomplished in accordance with WSI 25SW-0002. This information shall use the format used by WSTF for chemical inventory compilation to provide the following:

(1) the identity of the material
(2) the location of the material by building and room
(3) the quantity of each material normally kept at each location
(4) peak quantity stored
(5) actual or estimated rate of annual usage of each chemical

1.9. Government Access to Safety and Health Program Documentation: The contractor shall recognize in its plan that it will be expected to make all safety, health, and environmental documentation (including relevant personnel records) available for inspection or audit at the Government's request. Electronic access by the Government to this data is preferred as long as Privacy Act requirements are met and Government safety and health professionals and their representatives have full and unimpeded access for review and audit purposes. For contractor activities conducted on NASA property, the contractor will identify what records it will make available to the Government in accordance with the Voluntary Protection Program criteria of OSHA as implemented in JPR 1700.1, "JSC Safety and Health Handbook" and the WSTF Management System Manual series 25 documentation. For the purpose of this plan, safety, health, and environmental compliance documentation includes but is not limited to logs, records, minutes, procedures, checklists, statistics, reports, analyses, notes, or other written or electronic document which contains in whole or in part any subject matter pertinent to safety, health, environmental protection, or emergency preparedness.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

.0. Safety Requirement Modification: The contractor may be requested to participate in the review and modification of safety requirements that are to be implemented by the Government including any referenced documents therein. This review activity will be implemented at the direction of NS3/WSTF Safety & Mission Assurance, WSTF Institutional Safety, or the NASA Contracting Officer's Technical Representative in accordance with established NASA directives and procedures.

1.11. Procurement: Identify procedures used to assure that procurements are reviewed for safety and health considerations and that specifications contain appropriate safety criteria and instructions. Set forth authority and responsibility to assure that safety tasks are clearly stated in subcontracts. Describe the method to ensure contracts and subcontractors are selected to ensure safety is maintained. Assure past safety performance is considered.

1.12. Certified Professional Resources: Discuss your access to certified professional resources for safety, health, and environmental protection. Discuss their roles in motivation/awareness, worksite analysis, hazard prevention and control, and training.

1.13. Disciplinary System: Describe your system for ensuring safety and health discipline in your personnel (including subcontractors). Describe your approach to modifying personnel behaviors when personnel are exhibiting discrepant safety and health performance.

2. **WORKSITE ANALYSIS.** Hazards shall be systematically identified through a combination of surveys, analyses, and inspections of the workplace, investigations of mishaps and close calls, and the collection and trend analysis of safety and health data such as: records of occupational injuries and illnesses; findings and observations from preventive maintenance activities; reports on hazardous substance spills and inadvertent releases to the environment; facilities related incidents related to partial or full loss of systems functions; etc. Describe methods used to analyze and control hazards, consult with other on-site contractor expertise, and consistently communicate hazard controls and regulatory obligations. All hazards on NASA property, which are immediately dangerous to life or health, shall be reported immediately to NS3/WSTF S&MA and WSTF Institutional Safety. All safety engineering products that address operational hazard control, personal protective equipment, etc., on NASA property will be subject to NS3/WSTF S&MA and WSTF Institutional Safety review and concurrence in accordance with WSI 25SW-0007.

2.1. Industrial Hygiene: Describe your industrial hygiene program and how it will be coordinated with the WSTF government provided resources for industrial hygiene. In the event corporate resources are used to determine workplace exposures, copies of all monitoring data shall be provided to WSTF-resident JSC Occupational Health representatives within 15 days of receipt of results.

2.2. Hazard Identification: Describe the procedures and techniques to be taken to compile an inventory of hazards associated with the work to be performed on this contract. This inventory of hazards shall address the work specified in this contract as well as operations and work environments in the vicinity or in close proximity to contract operations. The results will be reported to the Government in a manner suitable for inclusion in facilities baseline

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

documentation as a permanent record of the facility. Inventory of hazards will include assurance that items are tracked to completion or residual hazards approved/accepted by NS3/WSTF S&MA and NASA Management as necessary. Specific techniques to be considered include:

2.3.1. *Hazard Analysis* – may address facilities, systems/subsystems, operations, processes, materials (including waste), and specific tasks or jobs. Analyses and report formats will be in accordance with JSC 17773, "Instructions for Preparation of Hazard Analyses for JSC Ground Operations," WSI 04SW-0002, and WSI 25SW-0032.

2.3.2. *Failure Modes and Effects Analysis* – may address facilities, systems/subsystems, or functional components. Analyses and report formats will be in accordance with WSI 04SW-0002.

2.3.3. *System Safety Analysis* – may address critical operations, projects, processes, or changes in materials, operations, or processes. Analyses and report formats will be in accordance with MSM System Safety Analysis Infrastructure Process.

2.4. Inspections:

2.4.1. *Routine Inspections* - includes assignments, procedures, and frequency for regular inspection and evaluation of work areas for hazards and accountability for implementation of corrective measures. The contractor will describe administrative requirements and procedures for regularly scheduled inspections for safety, health, and fire hazards, and methods to assure employee involvement in inspection activities as stipulated in WSP 25-0010 and WSI 25SW-0015, ensuring 100 percent coverage is accomplished on a quarterly basis. Describe maintenance of training and qualifications for personnel fulfilling Deputy Facility Health, Safety and Environmental Management positions. Describe methods to analyze inspection results and assure timely resolution of identified hazards. Inspections will identify

a. Discrepancies between observed conditions and current requirements, and

b. New (not previously identified) or modified hazards.

2.4.2. *Protective Equipment* - set forth procedures for obtaining, inspecting, and maintaining all appropriate protective equipment, as required, or reference written procedure pertaining to this subject in accordance with WSI 25SW-0007. Set forth methods for keeping records of such inspections and maintenance programs. Describe interaction with and utilization of other on-site safety and health professional including WSTF Institutional Safety and JSC Occupational Health representatives.

2.5. Employee Reports of Hazards: Identify methods to encourage employee reports of hazardous conditions (e.g., close calls) and analyze/abate hazards in accordance with WSTF MSM Close Call Infrastructure Process requirements. The contractor will describe steps it will take to create reprisal-free employee reporting with emphasis on management support for employees and describe methods to be used to incorporate employee insights into hazard abatement and motivation / awareness activities. Describe interaction with and utilization of other on-site safety and health professional including WSTF Institutional Safety and JSC Occupational Health representatives for tracking, analysis, and consultation regarding employee safety and health concerns.

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(Based on JSC-STD-123. See work page for instructions)

Process Safety Management (29 CFR 1910.119): Describe the method of assurance that OSHA requirements are fulfilled in accordance with WSI 25SW-0005.

2.7. Accident and Record Analysis:

2.7.1. *Mishap Investigation* – identification of methods to assure the reporting and investigation of mishaps including corrective actions implemented to prevent recurrence. The contractor will describe the methods to be used to report and investigate mishaps on NASA property and on contractor or third party property. The contractor will describe its procedures for implementing use of NASA forms as specified in JPR 1700.1 and WSI 25SW-0009, and any other forms used by contractor with emphasis on timely notification of NASA; investigation procedures; exercise of jurisdiction over a mishap investigation involving NASA and other contractor personnel; follow up of corrective actions; communication of lessons learned to NASA; and solutions to minimize duplications in reporting and documentation including use of alternate forms, etc. The contractor will discuss its procedures for immediate notification requirements for fires, hazardous materials releases, and other emergencies. The contractor will include appropriate details to address the use of NASA Form 1627, "Mishap Report" and requisite timeliness protocols for notification of NS2/JSC Occupational Safety and NS3/WSTF-S&MA.

2.7.2. *Trend Analysis* – describe approach to performing trend analysis of data (occupational injuries and illnesses; facilities, systems, and equipment performance; maintenance findings; etc.).

2.7.3. Discuss methods to identify and abate common causes indicated by trend analysis. Discuss methods of communicating hazard and injury trends to the workforce. In support of site-wide trend analysis to be performed by the Government, the contractor will discuss method of providing data as follows:

a. Accident/Incident Summary Report. The contractor shall prepare and deliver Accident/Incident Summary Reports as specified on JSC Form 288, "Accident/Incident Statistics". All new and open mishaps, including vehicle accidents, incidents, injuries, fires, and close calls shall be described in summary form along with current status. Negative reports are also required monthly. Report frequency is monthly; date due is the 10th day of the month following each month reported. Report to be delivered to the RA/WSTF Manager, NS3/WSTF S&MA and NS2/JSC Occupational Safety, by fax to 281-244-0426 or by attaching to an e-mail and transmitting to mishaps@ems.jsc.nasa.gov.

b. Log of Occupational Injuries and Illnesses. For each establishment on and off NASA property that performs work on this Contract, the Contractor shall deliver to the Government a copy of its annual summary of occupational injuries and illnesses (or equivalent) as described in Title 29, Code of Federal Regulations, Subpart 1904.5. Copy of all summaries as required above under Contractor's cover letter. If contractor is exempt by regulation from maintaining and publishing such logs, equivalent data in contractor's format is acceptable (such as loss runs from insurance carrier) which contains the data required by JSC Form 288. Data shall be compiled and reported by calendar year and provided to the Government within 30 days after the end of the year to be reported (e.g. not later than February 1 of the year following).

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

HAZARD PREVENTION AND CONTROL. Identified hazards must be eliminated or controlled. In the multiple employer environment of the center, it is required that hazards including discrepancies and corrective actions be collected in a center wide information system such as the WSTF Safety Inspection Management System as described in WSI 25SW-0015 for risk management purposes. Describe your approach to fulfilling hazard tracking and communication of risks to NASA management.

3.1. Appropriate Controls: Discuss approach to consideration and selection of controls. Discuss use of hazard reduction precedence sequence (see JPR 1700.1 and WSI 04SW-0002). Discuss approach to identifying and accepting any residual risk. Discuss implementation of controls including verifying effectiveness. Discuss scope of coverage (hazardous chemicals, equipment, discharges, waste, energies, etc.). Discuss methods of notification, coordination, and consultation with WSTF Institutional Safety, Emergency Services, and WSTF-resident JSC Occupational Health representatives as necessary to resolve hazards.

3.2. Hazardous Operations and Processes: Establish methods for notification of personnel when hazardous operations and processes are to be performed in their facilities or when hazardous conditions are found to exist during the course of this contract. JPR 1700.1 will serve as a guide for defining, classifying, and prioritizing hazardous operations. Discuss methods of coordinating and communicating hazardous operational activities with involved employees and support organizations in a manner that provides adequate support preparation and awareness of hazardous area restrictions and/or special access requirements. Describe process for selection and development of personnel conducting hazardous operations, and methods for demonstrating readiness to conduct hazardous operations in accordance with WSTF MSM Safety & Readiness Review Infrastructure Process provisions.

3.3. Written Procedures: Identify methods to assure that the relevant hazardous situations and proper controls are identified in documentation such as inspection procedures, test procedures, etc., and other related information. Describe methods to assure that written procedures are developed for all hazardous operations, including testing, maintenance, repairs, and handling of hazardous materials and hazardous waste. Procedures will be developed in a format suitable for use as safety documentation (such as a safety instructions or area specific emergency response guidelines) and be readily available to personnel as required to correctly perform their duties.

3.4. Hazardous Operations Permits: Identify facilities, operations and/or tasks where hazardous operations permits will be required as specified in JPR 1700.1 and WSP 25-0002 (such as confined space entry, hot work, etc.). Set forth guidance to adhere to established NASA WSTF procedures. Clearly state the role of WSTF Institutional Safety, Emergency Services, WSTF-resident JSC Occupational Health, or other WSTF function proposed to control such permits.

3.5. Operations Involving Potential Asbestos Exposures: Set forth method by which compliance is assured with WSTF Asbestos Control Program as established in WSP 25-0004.

3.6. Operations Involving Exposures to Toxic or Unhealthful materials: Describe methods to identify operations involving potential exposures to toxic materials. Describe process for

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

determining appropriate controls for toxic material handling, testing, or analysis, including but not limited to application of WSTF Chemical Hygiene Plan (WSI 25SW-0011), Process Safety Management (WSI 25SW-0005), or specific controls developed in consultation with WSTF Institutional Safety and WSTF-resident JSC Occupational Health representatives.

3.8. Facility Baseline Documentation: Discuss your responsibilities for maintaining facilities baseline documentation in accordance with WSP 25-0011. Describe methods for determining deficiencies in facility baseline documentation and quantifying and communicating risk associated with facility operation.

3.9. Preventive Maintenance: Discuss approach to preventive maintenance. Describe scope, frequency, and supporting rationale for your preventive maintenance program including facilities and /or equipment to be emphasized or de-emphasized. Discuss methods to promote awareness in the NASA community (such as alerts, safety flashes, etc.) when preventive maintenance reveals design or operational concerns in facilities and equipment (and related processes where applicable).

3.10. Hazard Correction and Tracking: Discuss your system for correcting and tracking safety, health, and environmental hazards with particular emphasis on integration with the WSTF Safety Inspection Management System. This includes the following:

3.11. Personnel awareness of hazards: Discuss your approach to communicate unsafe conditions and approved countermeasures to your employees. Discuss your approach to communicating such conditions to the Government and other contractors whose personnel may be exposed to such unsafe conditions. Discuss communications with facility managers. Discuss use of the NASA Lessons Learned Information System for both obtaining lessons from other sources and as a repository for lessons learned during performance of the contract.

3.12. Interim and Final Abatement Plans: Describe how you will approach interim and final abatement of hazards. Describe how you will provide data for all hazards that are not finally abated (all interim and final abatement actions completed) within 30 days of discovery. Discuss your approach to posting such plans using JSC Form 1240, "JSC Notice of Safety or Health Hazard and Action Plan", or equivalent. Discuss the role of facility managers in abatement planning, implementation, and verification (WSP 25-0010).

4. **MEDICAL (OCCUPATIONAL HEALTHCARE) PROGRAM.** Discuss your medical surveillance program and injury/illness case management to evaluate personnel and workplace conditions to identify specific health issues and prevent degradation of personnel health as a result of occupational exposures. Discuss approach to Cardiopulmonary Resuscitation (CPR), first aid, and return to work policies. Describe interface with WSTF-resident JSC Occupational Health personnel and the use of government provided medical and emergency facilities for medical observation programs, medical records maintenance, and the initial treatment of occupational injuries/illnesses in accordance with WSI 25SW-0019 provisions.

5. **EMERGENCY PREPAREDNESS.** Discuss approach to emergency preparedness and contingency planning which addresses fire, explosion, inclement weather, environmental spill /releases, etc.

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(Based on JSC-STD-123. See work page for instructions)

Discuss compliance with 29 CFR 1910.120 (HAZWOPER) and contractor role in WSTF Incident Command System (WSP 25-0009). Discuss methods to be used for notification of emergency services including emergency dispatch, safety hotline, etc. Also describe methods for notifying employees and responders of emergencies and determining effectiveness of emergency alerts. Discuss establishment of pre-planning strategies through procedures, training, drills, etc. Discuss methods to verify emergency readiness, including: equipment, communications and materials maintenance; compliance with New Mexico Health Department emergency medical response regulations; and maintenance and activation of mutual aid support.

6. **FIRE PROTECTION PROGRAM.** The contractor will describe how NASA fire protection and suppression requirements (NASA STD 8719.11) as well as NFPA requirements will be incorporated into the fire prevention/protection program (WSP 25-0003). Describe fire prevention/protection activities, including those performed through the contract and those accomplished through interface with Emergency Services resources. Describe methods to emphasize fire prevention awareness and implement corrective action upon identification of potential fire hazards. The description shall also contain details of how alarm response time and personnel complement requirements will be met including participation in auxiliary fire fighter programs and resources provided by WSTF Emergency Services. A summary of fire, medical, and emergency response runs (including response times and manning levels), fire inspection results and noncompliance status, areas of concern and improvements that have been accomplished shall be provided to NS3/WSTF S&MA on a monthly basis (due by the 5th of each month).

7. **SAFETY AND HEALTH TRAINING.** Describe the contractor's training program including identification of responsibility for training employees to assure understanding of safe work practices, hazard recognition, and appropriate responses for protective and/or emergency countermeasures, including training to meet federal, state, and local regulatory requirements. In doing so, the contractor will factor parallel requirements found in other mandates such as environmental protection [example: 29 CFR 1910.38 for emergency action plans and fire prevention plans versus EPA Resource Conservation & Recovery Act (RCRA) for Emergency Planning and Community Right-to-know (EPCRA).] Describe approach to identifying training needs including traceability to exercises such as job hazard analyses, performance evaluation profiles, hazard analyses, mishap investigations, trend analyses, etc. Describe approach to training personnel in the proper use and care of protective equipment (PPE). Discuss tailoring of training toward specific audiences (management, supervisors, and employees) and topics (safety orientation for new hires, specific training for certain tasks or operations). Discuss approach to ensure that training is retained and practiced. Discuss personnel certification programs. Certifications should include documentation that training requirements and physical conditions have been satisfied (examples include physical examination, testing, and on-the-job performance). Address utilization of WSTF Institutional Safety and other JSC safety and

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

health training resources (such as asbestos worker training/certification, hazard communication, confined space entry, lockout/tagout, etc.) as appropriate with particular emphasis on programs designed for the multiple employer work environment on NASA property. All training materials and training records will be provided to NASA, and other federal, State, and local agencies for their review upon request. Describe how any corporate or commercially provided training will be integrated or made consistent with safety and health training available from WSTF Institutional Safety or other NASA sanctioned resources.

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(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes)
Quality Plan	4/26/2005	003	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
The Quality Plan substantiates accomplishment of project technical performance and provides information to analyze performance trends, nonconformance control, PV/S status, calibration status, and progress of continuous improvement efforts.	☐ Technical ☐ Administrative ☒ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
WSTF MSM; WSP 02-0001; WSP 02-0002; WSP 09-0014; WSP 11-0001; WSP 13-0001; WSI 02SW-0002; WSI 09SW-0015	

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Frequency of submission. The plan delivered with the proposal, and subject to NASA review and approval subsequent to contract award. Periodic reports are delivered as directed within individual content elements detailed in section 6.0 below.

2.0 Authorization. The Quality Plan shall be approved by the Contractor's key personnel representing quality assurance. The Plan shall be submitted for approval by the Chief, Safety & Mission Assurance Office (code NS3). Other signatures may be required at the discretion of the Government.

3.0 Distribution. The contractor will send copies of the completed Quality Plan, and subsequent report elements to each of the following:
NS3/WSTF Safety & Mission Assurance Office (4 copies)
NASA, TEC, and FOSC Management System Representatives (1 copy each)
RA/Chief Engineer
Contracting Officer's Technical Representative
Other distribution is detailed within individual content elements detailed in section 6.0 below

4.0 Subsequent revisions to the Quality Plan. The Contractor may revise the Plan at any time to reflect WSTF Management System requirements, or at the direction of the Government. Revisions are subject to Government review and approval.

5.0 The contractor shall prepare this document in a format which: facilitates the identification of quality planning criteria as applied to common WSTF projects and; provides methods of surveillance and assessment of quality planning effectiveness as implemented for specific WSTF projects and programs. At the discretion of the Government, the entire Quality Plan, or any portion thereof, may be integrated within appropriate WSTF Documentation.

C Form 2341 (Rev February 26, 2002) (MS Word August 1995) (Previous editions are obsolete.)

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

) Quality Plan & Reports Content:

6.1 Describe quality planning preparations for specific types of WSTF projects consistent with the scope of activities in this contract. Specific emphasis should be placed on the inter-relationship and integration of technical, regulatory, quality, cost, and schedule requirements to be addressed in the project planning, design, and implementation phases. Describe how project management interfaces will be accomplished considering necessary quality planning aspects detailed in WSP 02-0001, and verification aspects detailed in WSP 02-0002.

Quality Report: By the 10th of each month following the quarter under review, provide a report of Type I projects (WSP 09-0014) active during the previous quarter, their required verification activities, and status of customer acceptability with respect to identified criteria.

6.2 Describe provisions for project and support service nonconformance trending to analyze project performance.

Quality Report: By the 10th of each month, provide a report of surveillance results associated with project performance. Also provide nonconformance trending (WSP 13-0001) identifying operational/project categories, applicable project constraints, applicable failure and cause classifications, and observations and/or recommendations regarding systemic deficiencies, if any.

6.3 Describe Pressure Vessel/System inspection, surveillance, and certification methods that will be applied to maintain system integrity in compliance with WSP 09-0005 and WSI 09SW-0015.

Quality Report: By the 10th of each month, provide a summary of PV/S certification status with respect to due date, and identification of any code non-compliances and their respective dispositions.

6.4 Describe methods for verifying equipment calibration traceability to National Institute of Standards and Technology (NIST) standards and/or WSTF Calibration customer requirements in accordance with WSP 11-0001.

Quality Report: By the 10th of each month, provide a WSTF Calibration Recall Notice in accordance with WJI SVC-GENR-1004, reporting items that need to be recalibrated to all WSTF Calibration customers. The report will contain the equipment ECN number, manufacturer, model, description, serial number, location, and department code. In addition, provide a concurrent report to NASA Office Chiefs and WSTF-resident contractor management containing total number of items recalled for calibration, number of overdues, and number of outstanding Discrepancy Records.

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(Based on JSC-STD-123. See work page for instructions)

6.5 Describe assurance methods and controls, to assess critical support processes performed in compliance with this contract or by any WSTF-resident contractors, which affect the quality of WSTF products.

Quality Report: By the 10th of each month, provide a summary of critical processes applicable to Type I projects active during the previous month, method(s) of assessment and control, and independent validation of skills and controls applied, i.e. QA inspection, certification review (noting last date of certification performed), or periodic surveillance (noting date of last survey performed). Provide observations and/or recommendations regarding systemic deficiencies, if any.

6.6 Describe any applications of operational designated verification (DV) representatives (WSI 02SW-0002) by any WSTF-resident contractors. Detail process for maintaining integrity of DV applications, including initial qualifications required, quality checks, periodic skills assessment, and collection/observation of objective evidence of compliance (i.e., performed work documents).

Quality Report: By the 10th of each month, provide a list of qualified DVs, their qualifications, any limitations on performance, results of assessments, and referenced objective evidence.

6.7 Describe contractor methods of identifying and implementing process improvements which would result in greater performance efficiencies and/or product quality enhancements.

Quality Report: By the 10th of each month, provide a summary of improvement initiatives, including continuous improvement or process investigation team activities, document modifications, organizational enhancements, or other improvements, and their respective impact on contract performance.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Monthly Maintenance Report	4/25/2005	004	RFP# NNJ05098306R

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
Aids in evaluating contractor performance of routine maintenance	☒ Technical ☐ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
MSM and WDS	

8. Preparation Information (*Include complete instructions for document preparation*)

The report, by office, shall summarize the number of maintenance tasks and Pressure Vessel/System (PV/S) packages completed per schedule, number of late tasks or packages, and number of deferred tasks or packages with cost performance. Deferred and late tasks/packages shall be listed by title/system number and short descriptor, and will include the proposed new due date. The monthly maintenance report shall be tendered within 10 working days of the end of the month being reported.

The contractor format for these reports will be reviewed and subject to approval by the COTR.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Monthly Maintenance Report	4/25/2005	004	RFP# NNJ05098306R

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
Aids in evaluating contractor performance of routine maintenance	☒ Technical ☐ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
MSM and WDS	

8. Preparation Information (*Include complete instructions for document preparation*)

The report, by office, shall summarize the number of maintenance tasks and Pressure Vessel/System (PV/S) packages completed per schedule, number of late tasks or packages, and number of deferred tasks or packages with cost performance. Deferred and late tasks/packages shall be listed by title/system number and short descriptor, and will include the proposed new due date. The monthly maintenance report shall be tendered within 10 working days of the end of the month being reported.

The contractor format for these reports will be reviewed and subject to approval by the COTR.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Ordnance Inventory Management Report	4/25/2005	005	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
Report of ordnance inventory, handling, use, storage conditions, and activities.	☒ Technical ☐ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
WSP 25-0007 WSI 25SW-0014	

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Frequency of submission. The Ordnance Inventory Management Report is prepared quarterly and delivered the 10th of the month following the previous quarterly period.

2.0 Distribution. The contractor will send copies of the completed Ordnance Inventory Management Report and subsequent data report elements to each of the following:
NS3/WSTF Safety & Mission Assurance Office (2 copies)
RC/Engineering Office
Contracting Officer's Technical Representative

) Ordnance Inventory Management Report Content:

3.1 Total inventory of ordnance stored at WSTF, listing: type, quantity, and location.

3.2 Receipts of ordnance during the period from external sources, listing: date of receipt, type, quantity, and source.

3.3 Shipments of ordnance during the period from WSTF Magazines, listing: ship date, type, quantity, and destination.

3.4 Use of ordnance during the period, listing: use date, type, quantity, and project application. Include summary of any alternative applications or disposal activities. Disposal operations should include information regarding notification to FOSC Environmental representatives for proper waste management and reporting.

3.5 Transfer of ordnance during the period to/from satellite storage areas, listing: transfer date, type, quantity, and name(s) of responsible receiving official.

3.6 Summary of periodic ordnance magazine inspections performed during the period, including:
- Date of inspection performance;
- Name(s) of individuals performing inspection;
- Results and of inspections including reference to any formal reports and status of corrective actions.

3.7 Summary of any ordnance-related audits, mishaps, or discrepancies during the period, including:
- Date and description of event;

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

- Referenced audit or mishap report, discrepancy record, or corrective/preventive action record;
- Status of resulting investigation or corrective action tasks.

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(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Equipment Replacement Plan	4/25/2005	006	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
Report of equipment status	☒ Technical ☐ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
MSM and WDS	

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Description/Use - The Equipment Replacement Plan is a two-part document. This document is required for strategic planning of equipment and system replacement due to non-maintainability. Part I is a 5-year and 10-year forecast of equipment support and maintainability. Part II is a replacement proposal for specific equipment and/or systems identified in Part I.

2.0 Submission:

2.1 Initial – Part I is after contract start + 30 days. Part II is 24 months prior to end of life of equipment identified in Part I.

2.2 Final – Part I is after contract start + 60 days.

2.3 Submission Frequency – Part I is submitted yearly, by August first. Part II is submitted as required.

3.0 Data Preparation Information:

3.1 Scope – The Equipment Replacement Plan Part I includes all the equipment in all the facilities under this contract. Equipment Replacement Plan Part II addresses only the specific equipment or system that is within 24 months of non-maintainability. Equipment or systems that total replacement costs (not per unit cost) is under $100,000 per government fiscal year is excluded from the Equipment Replacement Plan Part II requirement, with NASA Project Management approval.

3.2 Content – Equipment Replacement Plan Part I is a list of all equipment maintained under this contract that is non maintainable in the next 5 years. It is based upon failure trend analysis, performance analysis, spares availability, required vendor support, availability of COTS software and/or licensing agreements. It contains a projection of equipment end of life and an estimate per government fiscal year as to the replacement cost. Equipment Replacement Plan Part II is a detailed system engineering study and replacement proposal to NASA. It addresses current requirements, performance enhancements, and the strategic architecture team vision/tactical plan. It shall provide analysis and comparison of current technology availability and trends. The Part II plan would also address security, integration, and provide schedule. It also contains an estimate per government fiscal year of the lifecycle costs of the proposed replacement system.

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(Based on JSC-STD-123. See work page for instructions)

3.3 Format: Deliverable documents for both Parts I and II. Documents format will be proposed by the contractor and approved by NASA. A summary of Parts I and II will be provided as a presentation to NASA upon delivery of Parts I and II documented study.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Work Breakdown Structure and Dictionary	4/25/2005	007	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
To organize the tasks to be accomplished in this contract in a product-oriented structure. The WBS and dictionary shall provide the framework for structuring the program implementation plans, establishing and tracking budgets, preparing schedules, developing work force and material estimates, preparing work authorization documents, and reporting contract performance.	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Scope:

The WBS shall encompass all the products and services required to achieve all the requirements of this contract. The WBS shall subdivide the work to be accomplished into elements that serve as the basis for detailed planning and control, and in addition, permit collection of cost and schedule data for each element.

2.0 Contents:

The WBS shall depict a family tree composed of all the work required by the contract. The dictionary shall contain a concise description of contract tasks to be performed and products to be delivered, subdivided by WBS element. A WBS element may represent an identifiable product, a set of data, a service, a task, or a budget function. The structure shall be at least at the level of detail in the SOW with additional levels as required by the contract. Lower levels of detail, which the contractor uses for its own management purposes to validate information reported to NASA, shall be compatible with NASA requirements and be accessible to NASA. The relationship between the WBS and the contractor's internal organizations and processes should also be provided.

3.0 Format:

The WBS tree is to be in organization chart format and the associated WBS narrative (WBS Dictionary) in text form and arranged as stated in the contents section of this DRD.

4.0 Frequency of Submission:

Submitted with proposal and revision due at the start of the contract, or any time the WBS has been revised.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Contract Management Plan	4/25/2005	008	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
To describe the contractor's management organization, approach and systems	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Scope:

The contract management plan shall describe the contractor's organizational structure, contract and subcontract management approach, and management systems that will be used to ensure technical, schedule, and cost performance. The plan shall be comprehensive in nature and integrate all management systems of the prime, any subcontractors, any significant vendors, and any teaming or partnering arrangements, and associate contractor agreements (ACA's).

.0 Contents:

The contract management plan shall address the contractor's processes for work planning, estimating, authorization and execution of ordered services. The management plan shall also address scheduling of work, budget allocation, cost data accumulation, and completion form task management. The plan shall address systems engineering, project management, and integration approaches, including lines of responsibility and authority for controlling, reporting and reviewing work. The contract management and communications channels at all levels of the organization, including between contractors, any subcontractors, and NASA personnel, shall be addressed.

3.0 Frequency:

Submitted with proposal. Final revision is completed delivered to the Contracting Officer within 90 days of contract award.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Overall Program Reporting Plan	4/25/2005	009	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
The data is needed to demonstrate the suitability and effectiveness of WSTF's Management systems and processes, compliance to ISO 9001 and 14001 requirements, and to assess the overall integrated performance of the contract.	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
MSM Management Review	

8. Preparation Information (*Include complete instructions for document preparation*)

Overall contract performance must be reported on a monthly basis by posting the information electronically in a management information system defined by the Government. In addition, this information will be jointly reviewed with NASA and contractor management on a periodic basis of every 1-3 months.

Examples of reported information:

A. Management Systems - Internal and external audit results, non-conformance trending, corrective and preventative action status, continual improvement, Small Business reporting, cost per contract performance/EVMS
B. Safety – Total Case Incident Rate (TCIR), lost work days, restricted duty, close calls, safety inspection management system, mishap status
C. Environmental – Emissions, Water and Energy usage, Fines and Cost Impacts, Aspects and Impacts
D. Overall Project Performance Summary (Type I projects)
E. Management System Process Performance Metrics
F. Technical Service Centers performance metrics
G. Human Resources – Attrition rate, employee satisfaction, training effectiveness, resource availability
H. Site Budget Performance – Trending, actual costs against plan
I. Facility Systems – Pressure System recertification, emergency response, vehicle accidents, facility M&O performance, facility availability
J. Outreach – Education outreach, technical outreach

REQUIREMENTS

1. Provide a plan for identifying, collecting, and reporting the information into the Government provided management information system. The contractor may revise this plan at any time or at the direction of the Government. Revisions are subject to Government review and approval.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

Initial submittal of this plan is required with contract proposal. Subsequent revision is required within 30 days of contract start.

2. Jointly review this information with NASA management on a periodic basis not more often than monthly and not less than quarterly.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123)

Reviewed By:

Chief, Cost Accounting, Reports, and Property Branch
Financial Management Division

Date

Concurred By:

Chief Financial Officer

Date

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No.
NF533 Cost and Data Reporting	4/25/2005	010	NNJ06HC01C
4. Use (Define need for, intended use of, and/or anticipated results of data)			5. Category (Check one)
To collect costs and workload data for all contract work			☐ Technical ☒ Administrative ☐ SR&QA
6. References (Optional) None		7. Interrelationships (e.g., with other DRDs): None	
8. Preparation Information (Include complete instructions for document preparation).			

Scope:

The NASA Form 533 (NF533) reports provide data necessary for the following:

1. Projecting costs and hours to ensure that dollar and labor resources realistically support project and program schedules.
2. Evaluating contractors' actual cost and fee data in relation to negotiated contract value, estimated costs, and budget forecast data.
3. Planning, monitoring, and controlling project and program resources.
4. Accruing cost in NASA's accounting system, providing program and functional management information, and resulting in liabilities reflected on the financial statements

Cost is a financial measurement of resources used in accomplishing a specified purpose, such as performing a service, carrying out an activity, acquiring an asset, or completing a unit of work or project. NASA Procedural Requirements (NPR) 9501.2D entitled "NASA Contractor Financial Management Reporting," or its most current revision, identifies the cost reporting requirements for a contract.

The NF533 reports are the official cost documents used at NASA for cost type, price redetermination, and fixed price incentive contracts. The data contained in the reports must be auditable using Generally Accepted Accounting Principles. Supplemental cost reports submitted in addition to the NF533 must be reconcilable to the NF533.

Uncompensated overtime hours worked should be reported on NF533 reports as a separate line item or in the footnotes.

For contracts, which have multiple schedules, a summary NF533 is required to provide a cumulative from inception cost for the contract, regardless of schedule.

Frequency:
The due dates for the NF533M and NF533Q reports are outlined in Chapter 3 of NPR 9501.2D. The following is a summary of the NF533 due date requirements.

NF533 Report	Due Date
NF533M	Due not later than 10 working days following the close of the contractor's monthly accounting period, or the 15th day of the calendar month, whichever is earlier.
NF533Q	Due not later than the 15th day of the month proceeding the quarter being reported.

The due dates reflect the date the NF533 reports are received by personnel on the distribution list, not the date the reports are generated or mailed by the contractor. It is critical that the NF533 reports are submitted in a timely manner to ensure adequate time for NASA to analyze and record the cost into the NASA accounting system. All data should be provided electronically in Microsoft Excel format. Timeliness shall be determined by the time the electronic submission arrives at the Cost Accounting Office, however, at least one signed hardcopy submission shall still be required.

Distribution:

LF6	Cost Accounting (1 electronic copy and 1 hard copy with original signature)
BH/WSTF	Contracting Officer (1 hard copy with original signature)
LI/WSTF	Budget/Program Analyst (1 hard copy with original signature)
WSTF	COTR

Format:

The reporting requirements outlined in this DRD shall include the following deliverable formats presented in the attached Excel file:

Tab 1	NF533M and Q **Rollup Summary** for the entire contract (Exhibit 1)
Tab 2	NF533M and Q subtotal **Breakout by WBS** (Exhibit 2)
Tab 3	Supplemental report breakout **CCR Input** by identified key WBS (Exhibit 3)
Tab 4	Supplemental report showing **Cost by Deliver Order** (Exhibit 4)
Tab 5	Supplemental report showing **Workload Metrics** by WBS (Exhibit 5)

Microsoft Office
Excel Worksheet

The NF533M and Q forms are shown in the above Excel file and can be found in **NASA Contractor Financial Management Reporting, NASA Procedures and Guidelines (NPG) 9501.2C or latest revision.**

The sample formats, Exhibits 1 to 5, are examples of the proposed structure and format of the NF533 for this contract, and are intended to closely, though not exactly, represent the final version. See sample NF533 formats for this contract in this section including reporting data in both fiscal year and contract year.

Details:

Accrual Methodologies

NASA is required by law to maintain accrual accounting, which requires cost to be reported in the period in which benefits are received, without regard to time of payment. This contract shall reflect different methodologies for reporting costs on the NF533 documents. This is due to the distinctly different types of work authorized/contract fee type earned. All costs shall be reported through the NF533, whether fixed price or cost reimbursable in nature.

If required, subcontractor cost should be reported based on the same methodologies as the prime.

A) For Contract Statement of Work:

CPAF WBS

The accrual methodology for these WBS's shall be based on the actual costs incurred to date as the month reported, along with an estimate for the listed future periods. This is more traditional "cost plus" reporting. The information below, extracted from the NPG 9501.2C indicates the appropriate accrual methodologies for specific elements of cost.

Cost Element

Examples of accrual accounting for common cost elements reported on the NF533 follow:

Cost Elements	Definitions
Labor	Reported to NASA as hours are incurred.
Equipment & Materials (commercial off the shelf)	Generally reported to NASA when received and accepted by the contractor.
Manufactured Equipment	Defined as any equipment that is produced to specific requirements that make it useless to anyone else without rework. Cost should be reported to NASA as the equipment is being manufactured. The straight-line method for estimating accrued costs or the use of supplemental information obtained from the vendor are acceptable methods used to calculate the cost accrual amount.

Leases	Reported to NASA using a proration over the life of the lease.
Travel	Reported to NASA as costs are incurred.
Subcontracts	Actual and estimated costs reported by prime contractors shall include subcontractors' incurred costs for the same accounting period. Where subcontract costs are material, they should be separately identified on NF533 reports. The prime contractor shall include in the total cost of each subdivision of work the accrued cost (including fee, if any) of related subcontractor effort. Subcontractors should, therefore, be required to report cost to the prime contractor, using the accrual method of accounting. If the G&A and fee reported by a subcontractor are at the total subcontractor level, these costs must be allocated to specific sub-divisions of work. Data submitted by the subcontractor should be structured similar to the prime contractor's NF533 to enable the prime contractor to properly report to NASA. For Firm Fixed Price subcontracts with a contract value greater than $500,000, the prime contractor is required to document the methodology used to generate the sub-contractor costs reported and provide this information to the Contracting Officer and Center Deputy Chief Financial Officer (Finance).
Unfilled Orders	Reported as the difference between the cumulative cost incurred to date and amounts obligated to suppliers and subcontractors.
Fee	Should be accrued as earned using a consistent and auditable method to determine the amount. For example: an acceptable method would be to use historical data to determine the amount to accrue each month. Fee should be reported on the NF533 following the "Total Cost" line. Award fee must be reported by the following categories: Base Fee, Fee Earned, Interim Fee, Provisional Fee, Potential Additional Fee, and Total Fee. If any of the above fee categories do not pertain, they should not be included in the NF533.
Prompt Payment Discounts	Cumulative cost reported to NASA should be the full incurred cost. The prompt payment discount amount taken should be reported as a separate line item on the NF533 below the cumulative cost amounts for the contract.

B) For Indefinite Delivery/Indefinite Quantity (IDIQ) work:

Firm fixed Price IDIQ

The accrual methodology shall be identified according to the individual delivery order instructions. The cost reported on the NF533 shall be based upon either: 1) cost at completion (therefore, there shall be no cost reported prior to the actual completion and Government acceptance of the job), or 2) as work in process as identified on each order for some types of work, (therefore, getting partial credit for percentage complete prior to 100% completion of task).

In addition to the contract and WBS level reporting required in Exhibits 1 to 3, detailed reporting by delivery order shall be required (Exhibit 4).

CPAF IDIQ

The accrual methodology shall be based on actual cumulative costs incurred to date as of the month reported, along with an estimate for the listed future periods. This is more traditional "cost reimbursable" reporting. Additional direction may be found on the delivery order itself.

In addition to the contract and WBS level reporting required in Exhibits 1 to 3, detailed reporting by order shall be required (Exhibit 4).

Workload Reporting

The contractor shall provide a monthly report with workload performance metrics by WBS. The monthly report shall be due on the same date as the NF533, and shall reflect the same period of performance. Workload metrics shall be provided for each WBS, and shall be subtotaled at a level that is consistent with the cost reporting at the sub-WBS level. A sample format is attached (Exhibit 5).

Baseline NF533

An initial NF533 report is required in the NF533Q format to be used as a baseline for the life of the contract. The initial (baseline) NF533Q report shall be submitted by the contractor within 30 days after authorization to proceed has been granted. The initial report shall reflect the original contract value detailed by negotiated reporting categories and shall be the original contract baseline plan. In addition to the initial (baseline) report, monthly NF533 reporting shall begin no later than 30 days after the incurrence of cost.

Column 7b (planned cost incurred/hours worked for the month) and 7d (cumulative planned cost incurred/hours worked) of the NF533M (Exhibits 1 and 2) represent the negotiated baseline plan for the contract. There may not be a relationship between the estimates provided in columns 8 of the NF533M to columns 7b and 7d. Columns 7b and 7d represent the legally binding contract negotiated baseline plan plus all authorized changes.

Short and long-term cost estimates, which include all data entered in columns 8 and 9a on the NF533M and NF533Q reports, shall be based on the most current and reliable information available. For Exhibit 3, the annual funding limit (Column 8e) shall reflect the results of the annual budget and content planning process and any subsequent changes throughout the fiscal year.

Prior period cost adjustments should be reported in column 7a and 7c of NF533M and column 7a of the NF533Q with a footnote discussing the reasons for and amounts of the adjustments.

Monthly NF533 reporting is no longer required once the contract is physically complete, provided the final cost report includes actual cost only (no estimates or forecasts). The contractor must continue to submit monthly NF533 reports as long as estimates for the following period are included. If the final cost of a contract changes after the submission of the "final" contractor cost report, the contractor must submit a revised NF533 report in the month the cost change is recognized.

Electronic NF533 Requirement

In addition to submitting the NF533M or NF533Q in a hardcopy format, the contractor, upon request, shall submit the NF533 electronically by the same due date as the hardcopy. The data shall be submitted via email using the Government prescribed flat file format (see attached Agency Defined File Format for an example of the layout details) and shall include the following header information from the hardcopy.

omit pg

Data Element	Description
Contract Number	NASA assigned contract number
Modification Number	Latest definitive Modification Number
Accrual Date	Date the data was generated for
Report Period End Date	Period ending date of the NF533
Operating Days	Number of operating days for the current NF533
Date Received/Submitted	Date the report is submitted
CCR Format	Monthly (NF533M) or Quarterly (NF533Q)
Cost Unit of Measure	Unit of measure used to report cost on the NF533 report
HR/WYE Unit of Measure	Unit of measure used to report Hours/Work Year Equivalents (WYEs) on the NF533 report
Authorized Contractor Representative	Name of Contractor Approving Officer
Authorized Contractor Representative Date Signed	Date the NF533 is approved and signed by the authorized Contractor Representative
Monthly Grand Total Cost Incurred (7a)	Grand Total Actual Monthly cost for the prior month (column 7a on the NF533)
Monthly Grand Total HR/WYE (7a)	Grand Total Actual monthly hours/WYEs for the prior month (column 7a on the NF533)
Monthly Grand Total Cost Planned (7b)	Prior month planned cost (column 7b on the NF533)
Grand Total Cost Incurred ITD (7c)	Grand total contract cost from Inception to Date (ITD) (column 7c on the NF533)
Grand Total Planned Cost (7d)	Grand total planned contract cost (column 7d on the NF533)
Grand Total Estimated Cost (8a)	Grand total current month cost estimate (column 8a on the NF533)
Grand Total Estimated HR/WYE (8a)	Grand total current month HR/WYE estimate (column 8a on the NF533)
Grand Total Next Month Estimated Cost (8b)	Grand total next month cost estimate (column 8b on the NF533)
Grand Total Balance of Contract (8c)	Contract Balance for the remaining estimate to complete (column 8c on the NF533)
Grand Total Contractor Estimate (9a)	Contractor estimate to complete entire scope of contract (column 9a on the NF533)
Grand Total Contract Value (9b)	Contractor distribution of contract value by the reporting categories (column 9b on the NF533)
Grand Total Unfilled Orders Outstanding (10)	Unfilled order outstanding at the end of the reporting period (column 10 on the NF533)

The flat file will also contain detail information for each Reporting Category (RC). A Reporting Category correlates to a task order, delivery order, or Work Breakdown Structure (WBS) and is the level at which cost is reported. Each RC can have Sub-Reporting Category line items (detailed cost elements) that add up to a RC. **The Contractor is required to coordinate with the NASA Resource Analyst assigned to the contract in order to establish and maintain the Reporting Categories the contractor shall use to comply with this data requirement.** The chart below describes the data elements to be included in this section of the flat file (see attached Agency Defined File Format for specific layout details).

Data Element Name	Description
Reporting Category (RC)	Task, Delivery Order, Work Breakdown Structure
Cost Incurred for Month (7a)	Prior month actual cost incurred for each RC (column 7a on NF533)

HR/WYE Incurred for Month (7a)	Prior month actual HR/WYE incurred for each RC (column 7a on NF533)
Contract prior month planned cost (7b)	Planned cost for prior month for each RC (column 7b on NF533)
Contract ITD cost (7c)	Contract ITD cost for each RC (column 7c on NF533)
Contract planned ITD cost (7d)	Contract planned ITD cost for each RC (column 7d on NF533)
Current month estimated cost (8a)	Cost estimate for the current month for each RC (column 8a on NF533)
Current month estimated HR/WYE (8a)	HR/WYE estimate for the current month for each RC (column 8a on NF533)
Next month estimated cost (8b)	Estimated cost for next month for each RC (column 8b on NF533)
Balance of Contract (8c)	Balance of contract for the remaining estimate to complete for each RC (column 8c on NF533)
Contractor Estimate (9a)	Contractor estimate for the total estimate to complete entire scope of contract for each RC (column 9a on NF533)
Contract Value (9b)	Contract value based upon contract modifications for each RC (column 9b on NF533)
Unfilled orders outstanding (10)	Unfilled orders outstanding at the end of the reporting period for each RC (column 10 on NF533)
Reporting Category level	Used by NASA's accounting system to determine the RC level
Reporting Category Identifier	Identifies if the RC is a actual Reporting Category or a Sub-Reporting

Category

The flat file shall be saved as a text file with no extension (do not include .txt after the file name) and named in strict accordance with the specific format described in the attached Agency Defined File Format document.

File names must be provided in a specific format. Each file name will begin with the SAP 2 Character center abbreviation listed below. The contract number and date will be included in the file name as well. Below is a sample file name.

MACFPS001_NAS00-0001_yyyy_mm_dd

SAP 2 Charter Center Abbreviations

Headquarters	HQ	Dryden	DR
Marshall	MA	Goddard	GO
Ames	AM	Stennis	ST
Glenn	GL	Johnson	JO
Langley	LA	Kennedy	KE

References:

****NASA Contractor Financial Management Reporting, NASA Procedures and Guidelines (NPG) 9501.2C.**

Example File Format

Header (Non-Repeating Segment)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	St Pos	EndPos	Len	Formt
HEADER:									
Record Type	Used by eGate to determine record type	'HD' for Header	Required	Required	RECORD_TYPE	1	2	2	CHAR
Contract Number	Contract Number (1b)	Header field—submitted with CONTRACTOR data or defaulted by interface or extension	Required	Required	CONTRACT_NUMBER	3	12	10	CHAR
	Latest definitive Modification Number(CR8197)				MOD_NUMBER	13	18	6	CHAR
Accrual Date	Date the data was generated for. Used by SAP as part of Oracle table key	Accrual Date. MM01YYYY, where MM is the Accrual Month and YYYY is the fiscal year	Required	Required	ACCRUAL_DATE	19	26	8	DATE MM01YYYY
Report Period End Date	Report Period End Date is a date(2)	Header field—submitted with CONTRACTOR data or defaulted by interface or extension	Required	Required	REP_END_DATE	27	34	8	DATE
Operating Days	Operating days(2).	Header field—submitted with CONTRACTOR data	Required	Optional unless Required by contract	OPER_DAYS	35	40	6	NUMERIC
Date Received	Date Received (1d)	System Date upon which the cost data is loaded into the CCR Extension	Required	Required	DATE_REC	41	48	8	DATE
CCR Format	'M' for Monthly and 'Q' for Quarterly (SIR2047)	Submitted with CONTRACTOR data	Required	Required	CCR_FORMAT	49	49	1	CHAR
Cost Unit of Measure	Cost Unit of Measure (SIR2047)	Submitted with CONTRACTOR data	Required	Required	COST_UOM	50	51	2	CHAR

HR/WYE Unit of Measure	Hour/Work-Year-Equivalent Unit of Measure (SIR2047)	Submitted with CONTRACTOR data	Required	Required	HR_WYE_UOM	52	53	2	CHAR
	Authorized Contractor Representative – Name of Contractor Approving Officer (CR 8197)				AUTH_SIGNATURE	54	78	25	CHAR
	Authorized Contractor Representative Date Signed – Date CCR is approved/signed by authorized contractor representative(CR 8197)				AUTH_SIGNATURE_DATE	79	86	8	DATE MMDDYYYY
Grand Total Cost Incurred Month (7a)	The Grand Total Contract Prior Month Actual Dollars Column 7a reports actual costs for the prior month.	Submitted with CONTRACTOR data	Required.	Optional. Only required if lower detailed line item data is submitted in monthly batch file.	GT_COST_INCUR_MONTH	87	99	13	CURRENCY(2)
Grand Total HR/WYE (7a)	The Grand Total Contract Prior Month Actual Hours Column 7a reports actual HR or WYE for the prior month.	Submitted with CONTRACTOR data	Required if detailed line item data is submitted in monthly batch file.	Required if detailed line item data is submitted in monthly batch file.	GT_HRWYE_PRIOR_MONTH	100	109	10	NUMERIC(1)
	The Grand Total Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month. (CR8197)				GT_COST_PLANNED_MONTH	110	122	13	CURRENCY (2)

Grand Total Cost Incurred ITD (7c)	The Grand Total Contract Cost Dollars Column 7c which represents Contract Cost Inception to Date	Submitted with CONTRACTOR data	Required. Does not require detailed line item data if provided from Cost Incurred Month (7a)	Required if detailed line item data is provided for this column	GT_ITD_COST	123	135	13	CURRENCY (2)
	Grand Total Cotract Planned Cost Dollars Column (7d) which represents Planned Contract Cost Inception to Date(CR 8197)				GT_COST_PLANNED_ITD	136	148	13	CURRENCY (2)
Grand Total Estimated Cost (8a)	The Grand Total Contract Estimated Cost for first upcoming month, or Current Month Estimate for cost.	Submitted with CONTRACTOR data	Required	Required if detailed line item data is provided for this column	GT_EST_COST	149	161	13	CURRENCY (2)
Grand Total HR/WYE (8a)	The Grand Total Contract Estimated Hours for first upcoming month, or Current Month Estimate for HR/WYE.	Submitted with CONTRACTOR data	Required if detailed line item data is provided for this column	Required if detailed line item data is provided for this column	GT_HRWYE_FIRST_MONTH	162	171	10	NUMERIC (1)
Grand Total Next Month Estimated Cost (8b)	The Grand Total Contract Estimated Cost for second upcoming month or Next Month Estimate for cost.	Submitted with CONTRACTOR data	Required if detailed line item data is provided for this column	Required if detailed line item data is provided for this column	GT_NEXT_MONTH_EST	172	184	13	CURRENCY (2)

	Grand Total Balance of Contract for the remaining estimate to complete (CR 8197)				GT_BALANCE_CONTRACT	185	197	13	CURRENCY (2)
	Grand Total Contractor Estimate for the total estimate to complete entire scope of contract (CR 8197)				GT_BALANCE_CONTRACTOR_ESTIMATE	198	210	13	CURRENCY (2)
	Grand Total Contract Value based upon Contract Modifications (CR 8197)				GT_CONTRACT_VALUE	211	223	13	CURRENCY (2)
	Grand Total Unfilled Orders Outstanding at end of reporting period (CR 8197)				ST_UNFILLED ORDERS	224	236	13	CURRENCY (2)

Example File Format

Detail (Repeating Segment)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	St Pos	End Pos	Len	Format
CCR DETAIL LINE ITEMS:									
Record Type	'DM' for Monthly column 7a Detail; 'DQ' for ITD Column 7c Detail	"RD" for Detail	Required	Required	RECORD_TYPE	1	2	2	CHAR
Reporting Category	Reporting Category (6)	Line item field—submitted with CONTRACTOR data	Required	Required	SERV_ORD_CAT	3	26	24	CHAR
Cost Incurred Month (7a)	Prior Month incurred costs (ACTUALS) for given category.	Line item field—submitted with CONTRACTOR data	Required if detailed line item data is not provided from Cost Incurred Month (7c)	Determined by contract requirement- data from Column 7a, 7c or 8a	COST_INCUR_MONTH	27	39	13	CURRENCY (2)
HR/WYE Incurred Month (7a)	Prior month incurred hours worked [Actuals] for given category..	Line item field—submitted with CONTRACTOR data	Optional unless Required by contract for WYE calculation	Optional unless Required by contract for WYE calculation	HRWYE_INCUR_MONTH	40	49	10	NUMERIC (1)
	Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month (CR 8197)				COST_PLANNED_MONTH	50	62	13	CURRENCY (2)
	Contract Cost Dollars Column (7c) which represents Contract Cost Inception to Date (CR 8197)				CUR_COST_INCUR_ITD	63	75	13	CURRENCY (2)
	Contract Planned Cost Dollars Column (7d) which represents Planned Contract Cost Inception to Date (CR 8197)				COST_PLANNED_ITD	76	88	13	CURRENCY (2)
Current Month Estimated Cost (8a)	Estimated costs for first upcoming month for given category.	Line item field—submitted with CONTRACTOR data	Required.	Determined by contract requirement- data from Column 7a, 7c or 8a	CUR_MONTH_EC	89	101	13	CURRENCY (2)

HR/WYE Current Month Estimate (8a)	Estimated hours for first upcoming month for given category. Will only be needed if labor hours are required to be submitted electronically per contract.	Line item field—submitted with CONTRACTOR data	Optional unless Required by contract for WYE calculation	Optional unless Required by contract for WYE calculation	HRWYE_CUR_MONTH_EST	102	111	10	NUMERIC (1)
Next Month Estimated Cost (8b)	Estimated costs for second upcoming month for given category.	Line item field—submitted with CONTRACTOR data	Required unless not part of Contract scope	Required unless not part of Contract scope	NEXT_MONTH_EC	112	124	13	CURRENCY (2)
	Balance of Contract for the remaining estimate to complete (8c) (CR 8197)				BALANCE_CONTRACT	125	137	13	CURRENCY (2)
	Contractor Estimate for the total estimate to complete entire scope of contract (9a) (CR 8197)				CONTRACTOR_ESTIMATE	138	150	13	CURRENCY (2)
	Contract Value based upon Contract Modifications (CR 8197)				CONTRACT_VALUE	151	163	13	CURRENCY (2)
	Unfilled Orders Outstanding at end of reporting period (CR 8197)				UNFILLED ORDERS	164	176	13	CURRENCY (2)
	Used by SAP to determine Reporting Category Level (1.1.2.2.1) (CR 8197)				REPORTING_LEVEL	177	206	30	CHAR
	Fill in an "X" if record is a Reporting Category. Otherwise, leave blank for Sub-Reporting Category Line Items and Element of Cost detail records. This field is used by SAP to determine if the record is a Reporting Category. (CR 8197)				REPORTING_CAT_INDICATOR	207	207	1	CHAR

Example File Format

Sub-Reporting Category Line Items – Repeating Segment

Field Name	Start Pos	End Pos	Length	Format	Variable Repetition (?,*,+,n-n)	Description
SUB_RECORD_TYPE	1	2	2	CHAR		'SM' for Monthly column 7a Detail; 'SQ' for ITD column Detail
SUB_REP_CAT	3	26	24	CHAR		Reporting Category
SUB_COST_INCUR_MONTH	27	39	13	CURRENCY (2)		Prior month incurred costs (Actuals) for given category.
SUB_HRWYE_INCUR_MONTH	40	49	10	NUMERIC (1)		Prior month incurred hours worked (Actuals) for given category.
SUB_COST_PLANNED_MONTH	50	62	13	CURRENCY (2)		Contract Prior Month Planned Dollars Column **(7b)** reports planned costs for the prior month.
SUB_CUR_COST_INCUR_ITD	63	75	13	CURRENCY (2)		Contract Cost Dollars Column **(7c)** which represents Contract Cost Inception to Date.
SUB_COST_PLANNED_ITD	76	88	13	CURRENCY (2)		Contract Planned Cost Dollars Column **(7d)** which represents Planned Contract Cost Inception to Date.
SUB_CUR_MONTH_EC	89	101	13	CURRENCY (2)		Estimated costs for first upcoming month for given category **(8a)**.
SUB_HRWYE_CUR_MONTH_EST	102	111	10	NUMERIC (1)		Estimated hours for first upcoming month for given category. Will only be needed if labor hours are required to be submitted electronically per contract **(8a)**.
SUB_NEXT_MONTH_EC	112	124	13	CURRENCY (2)		Estimated costs for second upcoming month for given category **(8b)**.
SUB_BALANCE_CONTRACT	125	137	13	CURRENCY (2)		Balance of Contract for the remaining estimate to complete **(8c)**.
SUB_CONTRACTOR_ESTIMATE	138	150	13	CURRENCY (2)		Contractor Estimate for the total estimate to complete entire scope of contract **(9a)**.
SUB_CONTRACT_VALUE	151	163	13	CURRENCY (2)		Contract Value based upon Contract Modifications **(9b)**.
SUB_UNFILLED_ORDERS	164	176	13	CURRENCY (2)		Unfilled Orders Outstanding at end of reporting period.
REPORTING_LEVEL	177	206	30	CHAR		Used by SAP to determine Reporting Category Level (1.1.2.2.1) **(CR 8197).**
REPORTING_CAT_INDICATOR	207	207	1	CHAR		Fill in an "X" if record is a Reporting Category. Otherwise, leave Blank for Sub-Reporting Category Line Items and Element of Cost detail records. This field is used by SAP to determine if the record is a Reporting Category. **(CR 8197)**

Example File Format

533 Agency FILE RECORD LAYOUT (*Element of Cost Detail – Repeating Segment (CR8197)*)

Field Name	Start Pos	End Pos	Length	Format	Variable Repetition (?,*,+,n-n)	Description
RECORD_TYPE	1	2	2	CHAR		**'EM'** for Monthly column 7a Detail; **'EQ'** for ITD column Detail
EOC_REP_CAT	3	26	24	CHAR		Reporting Category
EOC _COST_INCUR_MONTH	27	39	13	CURRENCY (2)		Prior month incurred costs (Actuals) for given category.
EOC _HRWYE_INCUR_MONTH	40	49	10	NUMERIC (1)		Prior month incurred hours worked (Actuals) for given category.
EOC _COST_PLANNED_MONTH	50	62	13	CURRENCY (2)		Contract Prior Month Planned Dollars Column **(7b)** reports planned costs for the prior month.
EOC _CUR_COST_INCUR_ITD	63	75	13	CURRENCY (2)		Contract Cost Dollars Column **(7c)** which represents Contract Cost Inception to Date.
EOC _COST_PLANNED_ITD	76	88	13	CURRENCY (2)		Contract Planned Cost Dollars Column **(7d)** which represents Planned Contract Cost Inception to Date.
EOC _CUR_MONTH_EC	89	101	13	CURRENCY (2)		Estimated costs for first upcoming month for given category **(8a)**.
EOC _HRWYE_CUR_MONTH_EST	102	111	10	NUMERIC (1)		Estimated hours for first upcoming month for given category. Will only be needed if labor hours are required to be submitted electronically per contract **(8a)**.
EOC _NEXT_MONTH_EC	112	124	13	CURRENCY (2)		Estimated costs for second upcoming month for given category **(8b)**.
EOC _BALANCE_CONTRACT	125	137	13	CURRENCY (2)		Balance of Contract for the remaining estimate to complete **(8c)**.
EOC _CONTRACTOR_ESTIMATE	138	150	13	CURRENCY (2)		Contractor Estimate for the total estimate to complete entire scope of contract **(9a)**.
EOC _CONTRACT_VALUE	151	163	13	CURRENCY (2)		Contract Value based upon Contract Modifications **(9b)**.
EOC _UNFILLED_ORDERS	164	176	13	CURRENCY (2)		Unfilled Orders Outstanding at end of reporting period.
REPORTING_LEVEL	177	206	30	CHAR		Used by SAP to determine Reporting Category Level (1.1.2.2.1) **(CR 8197)**.
REPORTING_CAT_INDICATOR	207	207	1	CHAR		Fill in an "X" if record is a Reporting Category. Otherwise, leave Blank for Sub-Reporting Category Line Items and Element of Cost detail records. This field is used by SAP to determine if the record is a Reporting Category. **(CR 8197)**

Example File Format

Trailer (provides the number of header & detail records sent from the contractor/vendor/center in order to verify the receipt of complete data after transmission)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	Start Pos	End Pos	Length	Format
TRAILER:									
Record Type	Used by eGate to determine record type	"TL" for Trailer	Required	Required	RECORD_TYPE	1	2	2	CHAR
Record Count	Count of the number of Detail records sent to process (Detail Only)	Trailer field submitted with CONTRACTOR data	Required	Requried	RECORD_COUNT	3	9	7	NUMERIC
	Value of spaces				FILLER	10	207	198	CHAR

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Small Business Subcontracting Plan	4/25/2005	011	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
To describe the contractor's planned approach to Small Business Subcontracting and their reporting against this plan	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
FAR 52.219.8 and 52.219.9 and NASA FAR Supplement (NFS) 1852.219-75, 1852.219-76 and 1852.219-79	

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Scope: The Small Business Subcontracting Plan shall be in compliance with FAR 52.219.9. The Small Business Subcontracting Reporting shall be in compliance with NFS 1852.219-75.

2.0 Content: The Subcontracting plan must include the approach that the Contractor intends to use in meeting the subcontracting goals. Subcontractors whose bid is part of this proposal should be identified. For each subcontractor, the percentage of the proposal and any small or small business subcategory classification should be identified. For areas of potential future subcontracting, the Contractor should identify the area of work, the percentage of contract that this is expected to encompass, potential subcontractors and their small business or small business subcategory classification. Describe the management approach to subcontracting with small business and the various small business subcategory classifications.

3.0 Submission:

Subcontracting Plan:
Initial – Subcontracting Plan shall be submitted with offeror's proposal.
Approval – Prior to Contract Award.
Submission Frequency – Subcontracting Plan to be updated in accordance with FAR 19.702.

Reports:
All reports shall be submitted in accordance with FAR 52.219-9 and NFS 1852.219-75.

SF 294 Subcontracting Report for Individual Contracts - Shall be submitted semi-annually and at contract completion.
SF 295 Summary Subcontract Report - Shall be submitted semi-annually.

4.0 Format: Contractor format is acceptable for the plan; the reporting shall be in compliance with NFS 1852.219-75.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

5.0 Distribution:

Subcontracting Plan:

- Initial – as specified in the Proposal instructions.
- Final – Contracting Officer, COTR.
- Update – Contracting Officer, COTR.

Reports:

SF 294 – Contracting Officer.
SF 295 – NASA Headquarters, Office of Small and Disadvantaged Business Utilization.

6.0 Maintenance: Revisions shall be incorporated by change page or complete reissue.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Re-procurement Data Package	4/25/2005	012	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
Provide content and format requirements for delivery to NASA of all analytical models, tools, supporting documentation, equipment, data items and resource/cost information used to perform future re-procurement activities.	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Description/Use - Provide content and format requirements for delivery to NASA of all analytical models, tools, supporting documentation, equipment, data items and resource/cost information used to perform future reprocurement activities. Data contained in Paragraph 4.b.i, "Labor Resources", Paragraph 4.b.ii, "Non-labor Resources", and Paragraph 4.b.iii may be marked "Proprietary Data" and "Competition Sensitive". Data contained in Paragraph 4.b.iv, "Technical and Process Information" may be disclosed to competing offerors in the future.

2.0 Submission:

2.1 Initial/Final – One deliverable at the CO's direction

2.2 Approval – N/A

2.3 Submission Frequency - No periodic submissions required per this DR (this does not relieve the requirement for periodic or incremental deliveries per other DRs).

3.0 Applicable Documents: None

4.0 Data Preparation Information:

4.1 Scope – Analytical models, unique tools, supporting documentation, equipment and resource/cost information shall be submitted in accordance with this Data Requirement (DR).

4.2 Content – Data package containing the following:

4.2.1. Labor resources:

4.2.1.1. List of all direct labor skills by labor category, segregated by current work breakdown structure (WBS)

4.2.1.2. An estimate of the number of indirect labor skills such as business or computer support normally charged through an indirect expense pool or through a service center expense

4.2.1.3. Current annual average wage rates for each labor category and when these wages were last adjusted for escalation. Also indicate whether any adjustments are projected to be made prior to contract expiration

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

4.2.1.4. The number of FTEs (Full Time Equivalents) and the estimated number of productive hours for each labor category currently on contract, segregated by current WBS.

4.2.1.5. Seniority level of all skills on the current contract

4.2.2. Non-labor resources:

4.2.2.1. List of all materials, equipment, travel, supplies, etc., and the incurred annual cost by WBS. Only include significant items that are used to perform the technical requirements of this contract.

4.2.2.2. Provide a discussion associated with the major items identified above, such as the materials estimate includes a prompt payment discount of TBD% due to large volume discounts you have negotiated with your vendors.

4.2.3. The projected liability cost associated with unused accrued paid leave associated with non-exempt personnel. Provide a copy of any Collective Bargaining Agreements in place and a current status of any upcoming negotiations with a union.

4.2.4. Technical and Process Information:

Data Requirement Descriptions (DRDs) entitled:

- Management Plan
- Government Property Management Plan
- Overall Program Reporting
- Project Reporting

4.3 Format: Electronic. Organizational format of the supporting documentation shall be the contractor's format.

5.0 Maintenance - All models/tools and data items shall be maintained electronically. All documentation developed to support the use of each model/tool and data items shall also be maintained electronically. Both the models and the supporting documentation shall be updated as necessary to perform the assessments for which they were developed.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Contractor Security Management Plan	4/26/2005	013	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
The contractor security plan is used to document the security requirements of the facility and describe the controls in place or planned for meeting those requirements. Controls include system capabilities, processes and procedures.	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
Specified below	

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Submission
- 1.1 Draft: due at transition start
- 1.2 Final: due at contract start
- 1.3 Approved: 30 days after contract start
- 1.4 Submission frequency: annual

2.0 Applicable documents (note: some documents may fall into more than one category and are grouped for reference only)

2.1 Federal Documents:
- OMB circular A-130, App. III, Security of Federal Automated Information Resources
- NIST Special Publication 800-18 "Guide for Developing Security Plans
- FAR 52.204-2
- Export Administration Regulations (EAR)
- Arms Export Control Act (AECA)
- Federal Information Security Management Act (FISMA)
- Health Insurance Portability Act (HIPA)

2.2 NASA Agency and JSC Center documents
- NPR 2810.1 Security of Information Technology
- JSC JPG 2810.1B JSC IT Security Handbook

3.0 Data Preparation Information

3.1 Scope: The Plan shall describe the facility security capabilities, processes and procedures implemented to maintain the security integrity for the facility. The plan shall address the security requirements for facilities, systems, equipment, personnel, information, communications, and sensitive IT security procedures. Each security plan shall be specifically generated to address the type of facility and information processed in the facility as defined JPG 2810.1 (latest version). It is applicable to all facilities identified in this Statement of Work.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

3.2 Content: The processes for data collection shall be established, defined and documented to ensure adequate visibility and insight for Government personnel. The content described in JPG 2810.1B (latest) Section 5.11 "IT Security Plan Content" shall be adhered to.

3.3 Format: Format shall be in the form specified by NIST computer security guidelines.

3.4 Distribution: per Contracting Officer's letter

3.5 Personnel Access to Secure Areas: Describe processes to accommodate secure access to areas serviced by this contract. Access to White Sands Complex (WSC) and the adjoining DOD facility are controlled in accordance with:

- NPR 1600.1, NASA Security Manual
- NPR 1371.2A, Procedural Requirements for Processing Requests for Access to NASA Installations or Facilities by Foreign Nationals or US Citizens Who are Representatives of Foreign Entities
- DOD 5220, National Industrial Security Program Manual
- WSC-PLN-009, WSC Security Manual
- Network Advisory Message (NAM) 886

4.0 Maintenance:

4.1 Changes to each facility security plan shall be documented per the NASA/JSC Facility Computer Security Officer guidelines for addendums to security plans. Contents of addendums shall be incorporated into the next release of the security plan.

4.2 Security plans for General Support Systems shall be updated as a minimum every three years, as significant architecture or functional changes are incorporated, or as required by NASA.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Government Property Management Plan	04/25/2005	014	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
Describe the method of administering Government property	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
Federal Acquisition Regulation (FAR) Part 45 NASA FAR Supplement (NFS) Part 1845	

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Submission:
- 1.1 Initial – Due 30 days after start of phase in
- 1.2 Final – Due at contract start
- 1.3 Approval – Contract start plus 30 days
- 1.4 Submission Frequency – as required

0 Data Preparation Information

2.1 Scope – The Government Property Management plan defines the contractor's use, maintenance, repair, protection, and preservation of Government property. It shall describe the contractor's approach to receiving, handling, stocking, maintaining, protecting, and issuing Government property.

2.2 Content – This plan shall consist of those procedures which constitute the contractor's Property Management Manual and shall include at a minimum the following categories:

- Property Management
- Acquisition
- Receiving
- Identification
- Records
- Movement
- Storage
- Physical Inventories
- Reports
- Consumption
- Utilization
- Maintenance
- Subcontractor Control
- Disposition

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

- Reconcile Contractor Records with Financial Records
- Center – Unique Considerations
- Contractor Closeout
- Facility

2.3 Format: Contractor's electronic format is acceptable

2.4 Distribution: distribution specified below plus additional distribution per Contracting Officer's letter

2.4.1 Initial – as specified in the Proposal instructions

2.4.2 Final – Contracting Officer, COTR, Property Administrator, each Facility Project Manager

2.4.3 Update – Contracting Officer, COTR, Property Administrator, each Facility Project Manager

3.0 Maintenance - Revisions shall be incorporated by change page or complete reissue.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Wage/Salary and Fringe Benefit Data	4/26/2005	015	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
The Wage/Salary and Fringe Benefit Data will be used by the NASA Contracting Officer and the Contract Labor Relations Office to provide the necessary data for submittal of Standard Form (SF) 98, Notice of Intention to Make a Service Contract and Response to Notice, to the Department of Labor, and to assist in the monitoring of Service Contract Act compliance.	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
	FAR 52.222-41

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Distribution:

B__ /Contracting Officer
BA2/Contract Labor Relations Officer

2.0 Initial Submission: Start date of contract, at end of phase-in.

3.0 Submission Frequency: Annually, 90 days prior to the anniversary date of the contract.

4.0 Data Preparation Information:

4.1 Scope: The Wage/Salary and Fringe Benefit Data must be submitted by the Contractor, and any subcontractors which are subject to the provisions of the Service Contract Act, to the Contracting Federal Agency. In accordance with FAR regulations 22.1007 and 22.1008, the Contracting Officer is required to submit a SF 98 to the Department of Labor, Wage and Hour Division.

4.2 Applicable Documents: None

4.3 Contents: The Wage/Salary and Fringe Benefit Data should contain the data included in the enclosed DRD forms, titled "Wage/Salary Rate Information", "Fringe Benefit for Service Employees", and "Fringe Benefits per Collective Bargaining Agreement". The Wage/Salary Rate Information shall contain a listing of all exempt and nonexempt labor classifications working on the contract. Separate forms should be utilized for classifications working in different geographic areas and for each subcontractor. Wage determination numbers,

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

appropriation labor organization names, and subcontractor names, must be reflected. All nonexempt labor classifications must be matched to wage determination classes or to Collective Bargaining Agreement (CBA) classifications for represented classes. Annotate exempt or nonexempt and union or nonunion. The current hourly rates should reflect the actual lowest and highest paid employees, along with a computed average rate. State the number of employees working in each category. Separate Fringe Benefit forms should be completed for nonrepresented classifications and for each separate CBA. A separate form must be completed for the prime and each subcontractor. Three hardcopies and one electronic copy of each Collective Bargaining Agreement are required if organized labor is represented on your contract.

4.4 Format: The Wage/Salary and Fringe Benefit Data should be in a format substantially the same as enclosed with this DRD. (Forms 2, 3, and 3A)

4.5 Maintenance: Changes shall be incorporated as required by change page or complete reissue.

Form 2

WORK SHEET FOR SF-98
DATA
WAGE RATE INFORMATION

CONTRACTORS LABOR CLASSIFICATION	WAGE DETERMINATION CLASSIFICATION	EXEMPT OF NON-EXEMPT	UNION OR NON-UNION	CURRENT HOURLY RATE	MYE NO OF EMPLOYEES
Illustration of required data:					
Project Manager	Not Required	E	N	$40.00	1
Supervisor	Not Required	E	N	$32.00	1
Electrical Engineer	Not Required	E	N	$26.50 - 30.00	3
Engineering Tech, Jr	Engineering Tech, I	N	N	$12.00 - 14.00	12
Electrical Technician	Electronics Tech Maint II	N	U	$18.72 - $19.50	4
Secretary	Secretary I	N	N	$10.15 - $12.50	2
File Clerk	General Clerk II	N	N	$9.40	1
Clerical Data Entry	Word Processor I	N	N	$9.45 - $10.25	3

Submit data in the above illustrated format for all labor classifications used, or planned to be used, on this contract. All contractor labor classifications must be matched to wage determination classes listed in CBA's represented classes or classes shown in WD 94-2512 for nonrepresented classes.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

CONTRACTORS LABOR CLASSIFICATION	WAGE DETERMINATION CLASSIFICATION	EXEMPT OF NON-EXEMPT	UNION OR NON-UNION	CURRENT HOURLY RATE	MYE NO OF EMPLOYEES

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

ORM 3
age 1 of 2

FRINGE BENEFITS PER COLLECTIVE BARGAINING AGREEMENT

For period from _____ to _____

Contractor:

Contract Number:

Number of employees in bargaining unit _____

Total number of employees on contract _____

1. Shift Differential: (Describe any pay over and above base rates for 2nd, 3rd, weekend, or other shifts.)

2. Health and Welfare Items and Other Fringe Items: (Indicate whether or not coverage is provided to employees and state current average hourly cost per employee covered by a Collective Bargaining Agreement.)

Item	Coverage Provided (Yes or No)	Average Hourly Cost
a. Life Insurance		
b. Accidental Death		
c. Disability		
d. Medical and Hospital		
e. Dental		
f. Retirement Plan		
g. Savings/Thrift Plan		
h. Sick Leave		
i. Tuition		
j. Other (Describe)		

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

3. Paid Absences:

	Service Requirement	Days per Year
a. Vacation		
b. Holiday		
c. Sick Leave		
d. Jury Leave		
e. Funeral Leave		
f. Military Leave		
g. Other (Describe)		

4. Severance Pay: (Briefly describe terms and amounts.)

5. Other Fringe Benefits: (Describe any other fringe benefits not included above, and show average hourly cost.)

____ Premium Pay: (Discuss all premium pay provisions not previously shown on this form.)

_____ _____

Signature of Company Representative Date

JSC Form 2341 (Rev February 26, 2002) (MS Word August 1995) (Previous editions are obsolete.)

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

FORM 3A
Page 1 of 1

FRINGE BENEFITS FOR SERVICE EMPLOYEES

For Period from _____ to _____

Contractor:

Number of nonexempt employees on contract: _____

Total number of employees on contract: _____

1. Health and Welfare Items and Other Fringe Items:
(Indicate whether or not coverage is provided to employees and state current average hourly cost per service employee.)

Item	Coverage Provided	Average Hourly Cost
a. Life Insurance		
b. Accidental Death		
c. Disability		
d. Medical & Hospital		
e. Dental		
f. Retirement Plan		
g. Savings/Thrift Plan		
h. Sick Leave		
i. Tuition Reimbursement		
j. Other (Describe)		

2. Paid Absences

	Service Requirement	Days per Year
a. Vacation		
b. Holidays		
c. Sick Leave		
d. Jury Leave		
e. Funeral Leave		
f. Military Leave		
g. Other (Describe)		

_____ _____
Signature of Company Representative Date

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Notification of Potential Labor Dispute and Contingency Strike Plan	4/25/2005	016	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
The Notification of Potential Labor Dispute and Contingency Strike Plan will be used by the NASA Contracting Officer and the Contract Labor Relations Office to facilitate the coordination of activities between the Contractor and the affected NASA operational directorates to ensure that necessary steps are taken to prepare for any potential strike situations and to prevent the disruption of work.	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
	FAR 52.222.1

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Distribution: B_ /Contracting Officer
BA2/Connie Pritchard, Contract Labor Relations Officer

____) Initial Submission: Start of contract.

3.0 Submission Frequency: As required.

4.0 Data Preparation Information:

4.1 Scope: A Notification of Potential Labor Dispute must be submitted 45 days prior to the expiration of any collective bargaining agreements and at the first indication of potential labor unrest, which could delay the timely performance of the contract. The Notification shall describe the situation that has the potential of impacting the contract and provide the corrective actions initiated. A Contingency Strike Plan must be submitted at contract start and updated if there is any indication of a potential labor unrest or potential picketing activity. The Notification of Potential Labor Dispute and Contingency Strike Plan are required for the prime and any subcontractors supporting this contract.

4.2 Applicable Documents: None

4.3 Contents: The Notification of Potential Labor Dispute shall describe the situation that has the potential of impacting the timely performance of the contract, it should provide the planned negotiation dates with organized labor, and describe other corrective actions initiated. Notification should be made prior to the expiration of collective bargaining agreements, prior to any significant changes to existing working conditions or pay practices, or any situation that could impact the

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

erformance of the contract through labor unrest. The Contingency Strike Plan shall describe the Contractor's plan for assuring the timely performance of the work under this contract during a strike or work stoppage situation. As a minimum, contents should include: information on implementation of the strike plan, a pre-strike checklist for managers and supervisors, a description of how critical work will be performed, an organization chart of the strike committee membership, phone numbers of key management personnel, and standards of conduct policies during the strike.

4.4 Format: Contractor format is acceptable.

4.5 Maintenance: Changes shall be incorporated as required by change page or complete reissue.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Environmental Compliance Plan	5/92005	017	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
Establishes Environmental Compliance Plan for contractors providing support to JSC WSTF.	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
WSTF Management System Manual	

8. Preparation Information (*Include complete instructions for document preparation*)

Note: Upon NASA approval, the contractor's environmental compliance plan becomes a part of the contract.

1.0 Frequency of submission: First time with the proposal and at a minimum of annual thereafter.

2.0 Distribution: After the plan is approved by NASA, the Contracting Officer will retain the plan in the contract file. The contractor will send additional copies to each of the following:

NASA Environmental Program Manager (1 copy)
Contracting Officer's Technical Representative (1 copy)

3.0 Subsequent revisions to the plan: The contractor may revise the plan at any time or at the direction of the Government. Revisions are subject to Government review and approval. Distributions of approved revisions will be as described above.

4.0 Other deliverables: The requirements for this plan as detailed in the instructions on plan content below include instructions for specific reports and data to be submitted to the Government. These instructions are to be included in the plan and represent contractual commitments by the contractor to provide this information.

5.0 Format:

- Cover page - to include as a minimum the signatures of Contractor's project manager and designated environmental official upon contract award and for subsequent revisions, the plan shall be submitted for approval by the NASA Contracting Officer and RC/Environmental Program Manager. Other signatures may be required at the discretion of the Government.

- Table of Contents. See content below.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

- Body of plan - as required. Contractor's format is acceptable but should be traceable to the elements of the content below.

- When preparing its plan, the offeror/contractor is expected to review all the items below and tailor its plan accordingly. The plan will clearly identify those resources to be provided by the contractor and provided by the Government. This review and supporting rationale is to be made available to the Government as part of this plan. It can be documented as a checklist or outline, inserted directly in the body of the plan, or in any format developed by the contractor that clearly conveys the results of this review including the basis for any underlying assumptions.

Environmental Compliance Plan Content:

1. **MANAGEMENT LEADERSHIP AND EMPLOYEE PARTICIPATION.**

1.1. Policy: Provide the contractor's environmental compliance policy statement with the plan. Compare the contractor's policy statement with those of NASA and OSHA and discuss any differences.

1.2. Goals and Objectives: Describe the environmental goals and objectives to be met for the following

2.1 Pollution Prevention and Source Reduction of: Hazardous and Industrial Solid Wastes, Solid Wastes (trash, refuse) Wastewater Discharges (sanitary sewerage), and Air Emissions.

1.2.2 Affirmative Procurement (Purchase of Environmentally Preferable Material per Executive Order.

1.2.3 Hazardous Materials Handling/Purchasing/Reduction/Replacement

1.2.4 Elimination from specifications and standards requirements for the use of Hazardous/Toxic Substances & Materials.

1.2.5 Use of and Environmental Planning Checklist to review & document impacts of New and Modified Programs, Projects, Activities, and Operations.

1.2.6 Life cycle analysis and costing

1.2.7 Incorporating Environmental Requirements in Subcontracts

1.2.8 Participation in WSTF Recycling

1.3. Management Leadership: Describe management's procedures for implementing its commitment to environmental compliance visible management activities and initiatives. Describe processes and procedures to making this visible in all contract and subcontract activities and products. Include a statement from the project manager or designated environmental official indicating that the plan will be implemented as approved and that the project manager will take personal responsibility for its implementation.

1.4. Employee Involvement: Describe procedures to promote and implement employee (e.g., non-supervisory) involvement in the environmental compliance program development,

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

implementation, and decision-making. Describe the scope and breadth of employee participation to be achieved.

1.5. Assignment of Responsibility: Describe line and staff responsibilities for environmental compliance program implementation. Identify any other personnel or organization that provides or supports environmental compliance at WSTF. State the means of communication and interface concerning related issues used by line, staff, and others (such as documentation, concurrence requirements, committee structure, sharing of the work site with NASA and other contractors, or other special responsibilities and support.) As a minimum, the contractor will identify the Environmental Official who will be trained and certified in accordance with WSTF to be responsive to Center-wide environmental concerns and goals, and who will participate in meetings and other activities related to the WSTF Environmental Program.

1.6. Provision of Authority: Describe consistency of the plan for compliance with applicable NASA and WSTF requirements and contractual direction as well as applicable Federal, state, and local regulations and how compliance will be maintained throughout the life of the contract.

1.7. Accountability: Describe procedures for ensuring that management and employees will be held accountable for implementing their tasks in an environmentally compliant manner. The use of traditional and/or innovative personnel management methods (including discipline, motivational techniques, or any other technique that ensures accountability) will be referenced as a minimum and described as appropriate.

1.8. Disciplinary System: Describe your system for ensuring environmental compliance discipline in your personnel (including subcontractors). Describe your approach to modifying personnel behaviors when personnel are exhibiting discrepant compliance performance.

2. **WORKSITE ANALYSIS.** Environmental non-conformances shall be systematically identified through a combination of surveys, analyses, and inspections of the workplace, investigations of mishaps and close calls, and the collection and trend analysis of environmental compliance data such as reports on hazardous substance spills and inadvertent releases to the environment. Identify methods to encourage employees reports of environmental non-compliances.

3. **HAZARD PREVENTION AND CONTROL.** Identified environmental non-conformances must be resolved and eliminated. In the multiple employer environment of WSTF, it is required that environmental non-conformances and corrective actions be collected in a center wide information system such as the WSTF Safety Inspection Management System as described in WSI 25SW-0015 for risk management purposes. Describe your approach to collecting information from this contract and other WSTF-resident contractors, integrating and analyzing results, and fulfilling environmental non-conformance tracking and communication of risks to NASA management.

4. **EMERGENCY PREPAREDNESS.** Discuss approach to emergency preparedness and contingency planning, which addresses environmental spills and releases.

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

ENVIRONMENTAL COMPLIANCE TRAINING. Describe the contractor's training program including identification of responsibility for training employees to assure understanding of environmental compliance requirements. In doing so, the contractor will factor parallel requirements found in other mandates such as environmental protection [example: 29 CFR 1910.38 for emergency action plans and fire prevention plans versus EPA Resource Conservation & Recovery Act (RCRA) for Emergency Planning and Community Right-to-know (EPCRA).]

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)s)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes)
Information Technology (IT) Capital Planning and Investment Control (CPIC)	6/10/2005	018	NNJ06HC01C

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
To document the contractor's compliance with Federal and NASA IT CPIC Planning and Reporting regulations and requirements	☒ Technical ☐ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
Specified below	

8. Preparation Information (*Include complete instructions for document preparation*)

Applicable Documents

- For current IT CPIC planning requirements, the contractor must refer to the IRD (JSC CIO) and CFO web sites. These requirements will contain NASA's implementation of the Office of Management and Budget's (OMB's) IT CPIC planning, budgeting, and reporting requirements.
- JSC memorandum IA-03-032, subject: "JSC's Capital Planning and Investment Control Process"
- OMB Circulars A-130 and A-11
- Executive Order 12845, Energy-efficient Microcomputers
- IT Management Reform Act of 1996 (the "Clinger-Cohen Bill")
- NASA Procurement Information Circular (PIC) 01-13 entitled "Electronic and Information Technology Accessibility"

Scope

The contractor's IT CPIC Document shall describe contractor's IT CPIC processes, which includes development and submittal of the IT Program Operating Plan (POP), IT Fiscal Year (FY) Plans, IT Standards, and document the contractor's compliance with Federal and NASA IT planning and reporting regulations and requirements.

Contents

- IT CPIC Process Document
    - Shall address establishment and documentation of compliance with the IT CPIC requirements, as documented in JSC memo IA-03-032, NASA PIC 01-13, the IT POP, as well as all updates and/or replacements to those documents. The current documents can be viewed on the IRD (JSC CIO) and CFO web sites. The contractor's IT CPIC processes shall be presented to the Director/IRD (JSC CIO) for approval.
    -

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)s)

- Shall address the contractor's evaluation and selection of JSC IT Standards that will meet their requirements. Requirements that cannot be met sufficiently by a JSC or organizational standard will require submitting a new IT Standard per the approved process (JSC memo IA-03-032).

- IT POP
  - Shall comply with IT POP requirements as published on the JSC CFO web site.
  - Shall contain IT investment data and budget formulation information
  - Shall address IT security, contractor resource requirements, and IT system descriptions.

- IT FY Plans
  - Shall comply with IT fiscal year planning as documented in JSC memo IA-03-032 as well as all updates and/or replacements to this memo.
  - Shall contain IT investment data and budget formulation information for the "next" fiscal year.
  - Shall address IT security, contractor resources requirements, and IT system descriptions

- Contractor IT Standards
  - The contractor IT standards shall be submitted for Director/IRD (JSC CIO) approval, and when approved they will reside on the IRD (JSC CIO) web site and will be under IRD/JSC CIO configuration management.
  - Any changes to the approved contractor standards must be accompanied by JSC form 1209, which identifies the standard to change, an updated table with the change, and the reason for the change.
  - Current IT Standards are documented on the IRD (JSC CIO) web site.

- Compliance with Section 508 of the Rehabilitation Act
  - Shall address Section 508 requirements compliance in accordance with NASA PIC 01-13 entitled "Electronic and Information Technology Accessibility" prior to the procurement of Electronic and Information Technology (EIT). Specifically, enclosures are included in the PIC, one or more of which must be provided when such procurements are executed. This applies to any EIT procurement covered by Section 508.
  - Shall address how all EIT acquisitions were assessed for compliance with all the 508 Accessibility Standards if different from the flowchart in the PIC's enclosure 2, "EIT Market Research Template."

    Note: The NASA CIO has provided one exception to this. Internal components such as RAM, hard drives, and specialized analog-to-digital cards are not subject

PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

ATTACHMENT J-3 - US DEPARTMENT OF LABOR WAGE DETERMINATION/COLLECTIVE BARGAINING ECONOMIC TERMS

EXHIBIT NO.	TITLE	PAGE NO.
J-3.1	WAGE DETERMINATION DATA FOR NON EXEMPT SERVICE EMPLOYEES	J-3.1/1
J-3.2	LIST OF UNIONS – ATTACHMENT A	J-3.2/1
J-3.3	NOTICE OF INTENTION TO MAKE A SERVICE CONTRACT AND RESPONSE TO NOTICE	J-3.3/1
J-3.4	DEPARTMENT OF LABOR WAGE DETERMINATIONS – COLLECTIVE BARGAINING AGREEMENT (CBA)	J-3.4/1
J-3.5	DEPARTMENT OF LABOR WAGE DETERMINATIONS – NONEXEMPT NON-UNION	J-3.5/1

Wage Determination Data for Nonexempt Employees

The attached Department of Labor wage determination number 1994-2512 (revision 21) is incorporated into this solicitation for employees performing nonunion nonexempt services on this contract.

A large portion of the current workforce is represented by organized labor. In accordance with section 4c of the Service Contract Act, a contractor shall pay any service employee (regardless of whether or not such employee was employed under the predecessor contract) wages and fringe benefits provided for under a collective bargaining agreement (CBA). The Department of Labor has recognized the wages and benefits of the CBA between HTSI (incumbent contractor) and organized labor. The wage determinations are WD 94-2512 and WD 78-1124

To assist you in the preparation of this proposal, the current CBA between the incumbent contractor and organized labor is available for review in the Technical Reference Library (TRL). It is the contractor's responsibility to review the CBA in its entirety to ensure that the proper wages and benefits are proposed. Failure by this Agency to include any job classification, wage rate, or fringe benefit encompassed in the CBA does not relieve the terms of the CBA insofar as wages and fringe benefits are concerned.

List of Unions
Attachment A
(SF98 30838)

1. CBA between prime contractor HTSI and the International Association of Machinists and Aerospace Workers, AFL/CIO, Local 2515, dated July 18, 2003 through July 18, 2007.
(WD 78-1124)

STANDARD FORM 98
January 1996
U.S. DEPARTMENT OF LABOR
.OYMENT STANDARDS
ADMINISTRATION

NOTICE OF INTENTION TO MAKE A SERVICE CONTRACT AND RESPONSE TO NOTICE

(See Instructions on Reverse)

1. NOTICE NO.
30833

MAIL TO:

Administrator
Wage and Hour Division
U.S. Department of Labor
Washington, DC 20210

2. Estimated solicitation date *(use numerals)*

Month	Day	Year
05	18	05

3. Estimated date bids or proposals to be opened or negotiations begun *(use numerals)*

Month	Day	Year
08	15	05

4. Date contract performance to begin *(use numerals)* Extension

Month	Day	Year
05	01	06

5. PLACE(S) OF PERFORMANCE

Dona Ana County, NM (White Sands Test Facility)

6. SERVICES TO BE PERFORMED *(describe)*

ll :
Test & Evaluation Contract

Contract Period: 05/01/06 to 04/30/07

7. INFORMATION ABOUT PERFORMANCE

A. [X] Services now performed by a contractor
B. [ ] Services now performed by Federal employees
C. [ ] Services not presently being performed

8. IF BOX A IN ITEM 7 IS MARKED, COMPLETE ITEM 8 AS APPLICABLE

a. Name and address of incumbent contractor
H ell Technology Solutions, Inc.
P. x 20
Las Cruces, NM 88004

b. Number(s) of any wage determination(s) in incumbent's contract
WD 94-2512 and WD 78-1124

c. Name(s) of union(s) if services are being performed under collective bargaining agreement(s). ***Important:*** Attach copies of current applicable collective bargaining agreements

International Association of Machinists and Aerospace Workers, Local 2515

9. OFFICIAL SUBMITTING NOTICE

SIGNED:	DATE
Original Signed By	06/15/05
TYPE OR PRINT NAME	TELEPHONE NO.
Connie R. Pritchard Contract Labor Relations Officer	281-483-4121

10. TYPE OR PRINT NAME AND TITLE OF PERSON TO WHOM RESPONSE IS TO BE SENT
AND NAME AND ADDRESS OF DEPARTMENT OR AGENCY, BUREAU, DIVISION, ETC.

NASA Johnson Space Center
Connie R. Pritchard, Mail Code BA2
2101 Parkway
Houston, TX 77058

RESPONSE TO NOTICE
(by Department of Labor)

A. [X] The attached wage determination(s) listed below apply to procurement.
WD 94-2512, Rev 23
WD 78-1124, Rev 23

B. [ ] As of this date, no wage determination applicable to the specified locality and classes of employees is in effect.

C. [ ] From information supplied, the Service Contract Act does not apply *(see attached explanation)*.

D. [ ] Notice returned for additional information *(see attached explanation)*

Signed:_____
(U.S. Department of Labor)

(Date)

98-10 Computer Generated 1/96

STANDARD FORM 98a February 1973 .S. DEPARTMENT OF LABOR loyment Standards Administration	NOTICE OF INTENTION TO MAKE A SERVICE CONTRACT AND RESPONSE TO NOTICE (Attachment A)	11. Notice No. NASA 30833
12. CLASSES OF SERVICE EMPLOYEES TO BE EMPLOYED ON CONTRACT	13. NUMBER OF EMPLOYEES IN EACH CLASS	14. HOURLY WAGE RATE THAT WOULD BE PAID IF FEDERALLY EMPLOYED
Dona Ana County, NM; WD 94-2512, Occupations included in "SCA Directory of Occupations"		
Secretary IV	3	GS-7
Accounting Clerk, III	1	GS-4
Accounting Clerk, II	1	GS-3
General Clerk, II	2	GS-2
Dona Ana County, NM; WD 78-1124, CBA between Honeywell and IAM&AW, Local 2515 **		
Admin. Clerk A ** (4705 LG 9)	1	Per CBA
dmin. Clerk B ** (4706 LG 4)	1	Per CBA
in. Clerk, Sr. ** (4708 LG 13)	1	Per CBA
Blockhouse Monitor Coordinator, Sr. ** (4729 LG 15)	1	Per CBA
Blockhouse Monitor Coord. ** (4730 LG 12)	1	Per CBA
Chem. Analysis Tech. A ** (4731 LG 17)	3	Per CBA
Chem. Analysis Tech. B ** (4732 LG 15)	3	Per CBA
Chem. Analysis Tech. C ** (4733 LG 12)	2	Per CBA
Chem. Specialist ** (4735 LG 20)	2	Per CBA
Clean Room Aide A ** (4739 LG 11)	1	Per CBA
Clean Room Tech. A ** (4740 LG 17)	2	Per CBA
Clean Room Tech. B ** (4741 LG 15)	2	Per CBA
Clean Room Tech. C ** (4742 LG 12)	3	Per CBA
Data Analyst ** (4760 LG 20)	2	Per CBA
Depot. Elec. Test Tech. B ** (4788 LG 15)	3	Per CBA
Depot. Elec. Test Tech. C ** (4789 LG 12)	2	Per CBA
Depot. Elec. Test Specialist ** (4786 LG 20)	1	Per CBA
pot. Sys. Test Tech. A ** (4796 LG 17)	2	Per CBA
ot. Sys. Test Tech. B ** (4797 LG 15)	4	Per CBA

STANDARD FORM 98a February 1973 I.S. DEPARTMENT OF LABOR ɔloyment Standards Administration	NOTICE OF INTENTION TO MAKE A SERVICE CONTRACT AND RESPONSE TO NOTICE (Attachment A)	11. Notice No. NASA 30833

12. CLASSES OF SERVICE EMPLOYEES TO BE EMPLOYED ON CONTRACT Dona Ana County, NM; WD 78-1124, CBA between Honeywell and IAM&AW, Local 2515 **	13. NUMBER OF EMPLOYEES IN EACH CLASS	14. HOURLY WAGE RATE THAT WOULD BE PAID IF FEDERALLY EMPLOYED
Electronic Specialist ** (4776 LG 20)	4	Per CBA
Electronics Test Tech. A ** (4778 LG 17)	1	Per CBA
Material Test Spec. ** (4860 LG 20)	5	Per CBA
Material Test Tech. A ** (4862 LG 17)	6	Per CBA
Material Test Tech. B ** (4863 LG 15)	5	Per CBA
Mech. Calib. Tech. A ** (4722 LG 17)	3	Per CBA
Mech. Calib. Tech. C ** (4724 LG 12)	1	Per CBA
Metrology Spec. Elect. ** (4878 LG 18)	2	Per CBA
Millwright A ** (4877 LG 17)	1	Per CBA
Photographer/Cine. A ** (4885 LG 17)	1	Per CBA
Photographer/Cine. B ** (4886 LG 15)	1	Per CBA
ɔtographic Specialist ** (4891 LG 20)	1	Per CBA
..achinists A ** (4847 LG 17)	2	Per CBA
Machinists C ** (4849 LG 12)	4	Per CBA
Machinists Specialist ** (4851 LG 20)	2	Per CBA
Property Controller A ** (4897 LG 10)	1	Per CBA
Property Controller B ** (4898 LG 7)	1	Per CBA
Property Controller C ** (4899 LG 3)	1	Per CBA
Property Controller, Sr. ** (4900 LG 13)	1	Per CBA
QA Clerk ** (4909 LG 4)	1	Per CBA
QA Clerk, Sr. ** (4910 LG 9)	2	Per CBA
Sheet Metal Mechanic ** (4925 LG 16)	1	Per CBA
Sys. Test Tech. A ** (4940 LG 17)	6	Per CBA
Sys. Test Tech. B ** (4941 LG 15)	10	Per CBA
Sys. Test Tech. C ** (4942 LG 12)	11	Per CBA
Sys. Test Tech. Spec. (4939 LG 20)	1	Per CBA
Depot Sys. Test Tech. Spec. ** (4785 LG 20)	1	Per CBA
lding Spec. *** (4961 LG 20)	2	Per CBA
vvork Controller A ** (4964 LG 15)	1	Per CBA
Work Controller B ** (4965 LG 13)	1	Per CBA

REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT

U.S. DEPARTMENT OF LABOR
EMPLOYMENT STANDARDS ADMINISTRATION
By direction of the Secretary of Labor

WAGE AND HOUR DIVISION
WASHINGTON D.C. 20210

Wage Determination No.: 1978-1124
Revision No.: 23
Date Of Last Revision: 08/18/2004

William W.Gross
Director
Division of Wage Determinations

This wage determination applies at the address(es) below:

White Sands Test Facility, Dona Ana County, NM

Employed on NASA contract for test, evaluation, and maintenance services.

Collective Bargaining Agreement between Honeywell Technology Solutions, Inc. and International Association of Machinists and Aerospace Workers and Local No. 2515 effective July 18, 2003 through July 18, 2007.

In accordance with Sections 2(a) and 4(c) of the Service Contract Act, as amended, employees employed by the contractor(s) in performing services covered by the Collective Bargaining Agreement(s) are to be paid wage rates and fringe benefits set forth in the current collective bargaining agreement and modified extension agreement(s).

REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT

U.S. DEPARTMENT OF LABOR
EMPLOYMENT STANDARDS ADMINISTRATION
WAGE AND HOUR DIVISION
WASHINGTON D.C. 20210

By direction of the Secretary of Labor

William W. Gross
Director
Division of Wage Determinations

Wage Determination No.: 1994-2512
Revision No.: 23
Date of Last Revision: 06/14/2005

States: New Mexico, Texas

Area: New Mexico Counties of Chaves, Dona Ana, Eddy, Grant, Hidalgo, Lincoln, Luna, Otero, Sierra Texas Counties of Culberson, El Paso, Hudspeth

Fringe Benefits Required Follow the Occupational Listing

OCCUPATION CODE - TITLE	MINIMUM WAGE RATE
01000 - Administrative Support and Clerical Occupations	
01011 - Accounting Clerk I	9.21
01012 - Accounting Clerk II	10.14
01013 - Accounting Clerk III	13.49
01014 - Accounting Clerk IV	15.70
01030 - Court Reporter	12.97
01050 - Dispatcher, Motor Vehicle	12.41
01060 - Document Preparation Clerk	10.58
01070 - Messenger (Courier)	7.78
01090 - Duplicating Machine Operator	10.58
01110 - Film/Tape Librarian	11.00
01115 - General Clerk I	8.16
01116 - General Clerk II	9.18
01117 - General Clerk III	10.18
01118 - General Clerk IV	10.97
01120 - Housing Referral Assistant	14.58
01131 - Key Entry Operator I	8.50
01132 - Key Entry Operator II	10.05
01191 - Order Clerk I	9.78
01192 - Order Clerk II	11.20
01261 - Personnel Assistant (Employment) I	10.37
01262 - Personnel Assistant (Employment) II	11.64
01263 - Personnel Assistant (Employment) III	13.33
01264 - Personnel Assistant (Employment) IV	14.51
01270 - Production Control Clerk	13.14
01290 - Rental Clerk	8.85
01300 - Scheduler, Maintenance	10.15

01311 - Secretary I	10.15
01312 - Secretary II	12.97
01313 - Secretary III	14.58
01314 - Secretary IV	17.23
01315 - Secretary V	18.34
01320 - Service Order Dispatcher	9.71
01341 - Stenographer I	10.86
01342 - Stenographer II	11.65
01400 - Supply Technician	17.23
01420 - Survey Worker (Interviewer)	12.88
01460 - Switchboard Operator-Receptionist	8.71
01510 - Test Examiner	12.97
01520 - Test Proctor	12.97
01531 - Travel Clerk I	10.63
01532 - Travel Clerk II	11.36
01533 - Travel Clerk III	12.10
01611 - Word Processor I	9.58
01612 - Word Processor II	10.73
01613 - Word Processor III	13.41

03000 - Automatic Data Processing Occupations

03010 - Computer Data Librarian	9.83
03041 - Computer Operator I	10.44
03042 - Computer Operator II	14.05
03043 - Computer Operator III	15.72
03044 - Computer Operator IV	17.47
03045 - Computer Operator V	19.35
03071 - Computer Programmer I (1)	17.76
03072 - Computer Programmer II (1)	23.82
03073 - Computer Programmer III (1)	27.17
03074 - Computer Programmer IV (1)	27.62
03101 - Computer Systems Analyst I (1)	22.14
03102 - Computer Systems Analyst II (1)	26.56
03103 - Computer Systems Analyst III (1)	27.62
03160 - Peripheral Equipment Operator	10.44

05000 - Automotive Service Occupations

05005 - Automotive Body Repairer, Fiberglass	15.63
05010 - Automotive Glass Installer	13.69
05040 - Automotive Worker	13.69
05070 - Electrician, Automotive	14.67
05100 - Mobile Equipment Servicer	11.73
05130 - Motor Equipment Metal Mechanic	15.63
05160 - Motor Equipment Metal Worker	13.69
05190 - Motor Vehicle Mechanic	16.49
05220 - Motor Vehicle Mechanic Helper	10.75
05250 - Motor Vehicle Upholstery Worker	12.70
05280 - Motor Vehicle Wrecker	13.69
05310 - Painter, Automotive	14.67

05340 - Radiator Repair Specialist	13.69
05370 - Tire Repairer	11.33
05400 - Transmission Repair Specialist	15.63
07000 - Food Preparation and Service Occupations	
(not set) - Food Service Worker	7.05
07010 - Baker	10.41
07041 - Cook I	9.48
07042 - Cook II	11.06
07070 - Dishwasher	6.37
07130 - Meat Cutter	10.41
07250 - Waiter/Waitress	7.02
09000 - Furniture Maintenance and Repair Occupations	
09010 - Electrostatic Spray Painter	14.67
09040 - Furniture Handler	8.80
09070 - Furniture Refinisher	14.67
09100 - Furniture Refinisher Helper	10.75
09110 - Furniture Repairer, Minor	11.95
09130 - Upholsterer	14.67
11030 - General Services and Support Occupations	
11030 - Cleaner, Vehicles	6.70
11060 - Elevator Operator	7.06
11090 - Gardener	10.70
11121 - House Keeping Aid I	6.68
11122 - House Keeping Aid II	7.25
11150 - Janitor	7.43
11210 - Laborer, Grounds Maintenance	8.02
11240 - Maid or Houseman	6.60
11270 - Pest Controller	11.99
11300 - Refuse Collector	6.89
11330 - Tractor Operator	9.82
11360 - Window Cleaner	8.35
12000 - Health Occupations	
12020 - Dental Assistant	11.54
12040 - Emergency Medical Technician (EMT) /Paramedic/Ambulance Driver	12.30
12071 - Licensed Practical Nurse I	12.74
12072 - Licensed Practical Nurse II	14.30
12073 - Licensed Practical Nurse III	15.99
12100 - Medical Assistant	10.35
12130 - Medical Laboratory Technician	12.57
12160 - Medical Record Clerk	9.77
12190 - Medical Record Technician	13.54
12221 - Nursing Assistant I	7.76
12222 - Nursing Assistant II	8.73
12223 - Nursing Assistant III	9.53

12224 - Nursing Assistant IV	10.69
12250 - Pharmacy Technician	12.19
12280 - Phlebotomist	12.29
12311 - Registered Nurse I	18.20
12312 - Registered Nurse II	22.28
12313 - Registered Nurse II, Specialist	22.28
12314 - Registered Nurse III	26.95
12315 - Registered Nurse III, Anesthetist	26.95
12316 - Registered Nurse IV	32.28

13000 - Information and Arts Occupations

13002 - Audiovisual Librarian	19.93
13011 - Exhibits Specialist I	19.15
13012 - Exhibits Specialist II	23.08
13013 - Exhibits Specialist III	26.14
13041 - Illustrator I	19.15
13042 - Illustrator II	23.08
13043 - Illustrator III	26.14
13047 - Librarian	22.08
13050 - Library Technician	12.44
13071 - Photographer I	11.95
13072 - Photographer II	15.32
13073 - Photographer III	19.16
13074 - Photographer IV	22.77
13075 - Photographer V	25.97

15000 - Laundry, Dry Cleaning, Pressing and Related Occupations

15010 - Assembler	6.61
15030 - Counter Attendant	6.61
15040 - Dry Cleaner	8.05
15070 - Finisher, Flatwork, Machine	6.61
15090 - Presser, Hand	6.61
15100 - Presser, Machine, Drycleaning	6.61
15130 - Presser, Machine, Shirts	6.61
15160 - Presser, Machine, Wearing Apparel, Laundry	6.61
15190 - Sewing Machine Operator	8.52
15220 - Tailor	9.37
15250 - Washer, Machine	7.09

19000 - Machine Tool Operation and Repair Occupations

19010 - Machine-Tool Operator (Toolroom)	14.67
19040 - Tool and Die Maker	18.42

21000 - Material Handling and Packing Occupations

21010 - Fuel Distribution System Operator	13.82
21020 - Material Coordinator	12.32
21030 - Material Expediter	12.32
21040 - Material Handling Laborer	7.84
21050 - Order Filler	10.19

21071 - Forklift Operator	10.39
21080 - Production Line Worker (Food Processing)	10.86
21100 - Shipping/Receiving Clerk	10.02
21130 - Shipping Packer	10.02
21140 - Store Worker I	8.54
21150 - Stock Clerk (Shelf Stocker; Store Worker II)	11.10
21210 - Tools and Parts Attendant	10.86
21400 - Warehouse Specialist	10.86

23000 - Mechanics and Maintenance and Repair Occupations

23010 - Aircraft Mechanic	19.29
23040 - Aircraft Mechanic Helper	13.27
23050 - Aircraft Quality Control Inspector	20.52
23060 - Aircraft Servicer	15.60
23070 - Aircraft Worker	16.82
23100 - Appliance Mechanic	14.67
23120 - Bicycle Repairer	11.33
23125 - Cable Splicer	17.19
23130 - Carpenter, Maintenance	14.67
23140 - Carpet Layer	13.69
23160 - Electrician, Maintenance	17.10
23181 - Electronics Technician, Maintenance I	16.12
23182 - Electronics Technician, Maintenance II	19.80
23183 - Electronics Technician, Maintenance III	21.07
23260 - Fabric Worker	12.70
23290 - Fire Alarm System Mechanic	15.63
23310 - Fire Extinguisher Repairer	11.73
23340 - Fuel Distribution System Mechanic	18.42
23370 - General Maintenance Worker	13.69
23400 - Heating, Refrigeration and Air Conditioning Mechanic	15.63
23430 - Heavy Equipment Mechanic	17.19
23440 - Heavy Equipment Operator	15.63
23460 - Instrument Mechanic	15.63
23470 - Laborer	7.84
23500 - Locksmith	14.67
23530 - Machinery Maintenance Mechanic	16.14
23550 - Machinist, Maintenance	15.98
23580 - Maintenance Trades Helper	10.75
23640 - Millwright	17.46
23700 - Office Appliance Repairer	14.67
23740 - Painter, Aircraft	14.67
23760 - Painter, Maintenance	14.67
23790 - Pipefitter, Maintenance	15.76
23800 - Plumber, Maintenance	14.79
23820 - Pneudraulic Systems Mechanic	15.63
23850 - Rigger	15.63
23870 - Scale Mechanic	13.69
23890 - Sheet-Metal Worker, Maintenance	15.63
23910 - Small Engine Mechanic	13.76

23930 - Telecommunication Mechanic I	18.70
23931 - Telecommunication Mechanic II	19.89
23950 - Telephone Lineman	17.19
23960 - Welder, Combination, Maintenance	15.63
23965 - Well Driller	15.63
23970 - Woodcraft Worker	15.63
23980 - Woodworker	11.73
24000 - Personal Needs Occupations	
24570 - Child Care Attendant	8.41
24580 - Child Care Center Clerk	10.49
24600 - Chore Aid	6.23
24630 - Homemaker	12.70
25000 - Plant and System Operation Occupations	
25010 - Boiler Tender	16.75
25040 - Sewage Plant Operator	15.63
25070 - Stationary Engineer	16.75
25190 - Ventilation Equipment Tender	10.98
25210 - Water Treatment Plant Operator	15.63
27000 - Protective Service Occupations	
(not set) - Police Officer	20.13
27004 - Alarm Monitor	12.33
27006 - Corrections Officer	17.48
27010 - Court Security Officer	17.48
27040 - Detention Officer	17.48
27070 - Firefighter	19.83
27101 - Guard I	7.26
27102 - Guard II	11.42
28000 - Stevedoring/Longshoremen Occupations	
28010 - Blocker and Bracer	15.20
28020 - Hatch Tender	15.20
28030 - Line Handler	15.20
28040 - Stevedore I	14.81
28050 - Stevedore II	18.11
29000 - Technical Occupations	
21150 - Graphic Artist	19.52
29010 - Air Traffic Control Specialist, Center (2)	31.49
29011 - Air Traffic Control Specialist, Station (2)	22.04
29012 - Air Traffic Control Specialist, Terminal (2)	23.92
29023 - Archeological Technician I	17.29
29024 - Archeological Technician II	19.33
29025 - Archeological Technician III	23.95
29030 - Cartographic Technician	25.12
29035 - Computer Based Training (CBT) Specialist/ Instructor	23.65
29040 - Civil Engineering Technician	18.93

29061 - Drafter I	13.16
29062 - Drafter II	15.41
29063 - Drafter III	19.99
29064 - Drafter IV	26.25
29081 - Engineering Technician I	11.29
29082 - Engineering Technician II	14.72
29083 - Engineering Technician III	18.43
29084 - Engineering Technician IV	22.69
29085 - Engineering Technician V	26.70
29086 - Engineering Technician VI	30.43
29090 - Environmental Technician	18.11
29100 - Flight Simulator/Instructor (Pilot)	26.56
29160 - Instructor	20.51
29210 - Laboratory Technician	15.08
29240 - Mathematical Technician	24.90
29361 - Paralegal/Legal Assistant I	14.31
29362 - Paralegal/Legal Assistant II	19.00
29363 - Paralegal/Legal Assistant III	21.32
29364 - Paralegal/Legal Assistant IV	28.11
29390 - Photooptics Technician	22.90
29480 - Technical Writer	28.84
29491 - Unexploded Ordnance (UXO) Technician I	20.02
29492 - Unexploded Ordnance (UXO) Technician II	24.22
29493 - Unexploded Ordnance (UXO) Technician III	29.03
29494 - Unexploded (UXO) Safety Escort	20.02
29495 - Unexploded (UXO) Sweep Personnel	20.02
29620 - Weather Observer, Senior (3)	18.15
29621 - Weather Observer, Combined Upper Air and Surface Programs (3)	16.08
29622 - Weather Observer, Upper Air (3)	16.08

31000 - Transportation/ Mobile Equipment Operation Occupations

31030 - Bus Driver	12.42
31260 - Parking and Lot Attendant	6.82
31290 - Shuttle Bus Driver	11.32
31300 - Taxi Driver	9.55
31361 - Truckdriver, Light Truck	11.32
31362 - Truckdriver, Medium Truck	12.96
31363 - Truckdriver, Heavy Truck	13.90
31364 - Truckdriver, Tractor-Trailer	13.90

99000 - Miscellaneous Occupations

99020 - Animal Caretaker	8.82
99030 - Cashier	7.04
99041 - Carnival Equipment Operator	9.59
99042 - Carnival Equipment Repairer	10.45
99043 - Carnival Worker	6.96
99050 - Desk Clerk	9.41
99095 - Embalmer	20.02

99300 - Lifeguard	10.52
99310 - Mortician	20.02
99350 - Park Attendant (Aide)	13.21
99400 - Photofinishing Worker (Photo Lab Tech., Darkroom Tech)	9.06
99500 - Recreation Specialist	11.65
99510 - Recycling Worker	9.48
99610 - Sales Clerk	8.96
99620 - School Crossing Guard (Crosswalk Attendant)	7.71
99630 - Sport Official	9.97
99658 - Survey Party Chief (Chief of Party)	15.50
99659 - Surveying Technician (Instr. Person/Surveyor Asst./Instr.)	12.67
99660 - Surveying Aide	10.74
99690 - Swimming Pool Operator	11.25
99720 - Vending Machine Attendant	8.85
99730 - Vending Machine Repairer	11.25
99740 - Vending Machine Repairer Helper	8.85

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 $2.87 per hour computed on the basis of all hours worked by service employees employed on the contract.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 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 4.174)

THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as numbered):

1) Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See CFR 4.156)

2) APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY - NIGHT DIFFERENTIAL: An employee is entitled to pay for all work performed between the hours of 6:00 P.M.

and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.

3) 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 ordinance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordance, 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 ordance, (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 ordance, 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 ordance, 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.

** NOTES APPLYING TO THIS WAGE DETERMINATION **

Under the policy and guidance contained in All Agency Memorandum No. 159, the Wage and Hour Division does not recognize, for section 4(c) purposes, prospective wage rates and fringe benefit provisions that are effective only upon such contingencies as "approval of Wage and Hour, issuance of a wage determination, incorporation of the wage determination in the contract, adjusting the contract price, etc." (The relevant CBA section) in the collective bargaining agreement between (the parties) contains contingency language that Wage and Hour does not recognize as reflecting "arm's length negotiation" under section 4(c) of the Act and 29 C.F.R. 5.11(a) of the regulations. This wage determination therefore reflects the actual CBA wage rates and fringe benefits paid under the predecessor contract.

Source of Occupational Title and Descriptions:

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Third Supplement, dated March 1997, unless otherwise indicated. This publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

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.

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PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

SECTION J-4 - LIST OF INSTALLATION-ACCOUNTABLE PROPERTY AND VEHICLES

LIST	Title	Page
1	Test and Evaluation Contract IAP	J-4.1/1
2	Government-Provided GSA Vehicles	J-4.2/1

The FOSC contractor will maintain all Installation Accountable Property and Vehicles.

GOVERNMENT-PROVIDED GSA VEHICLES

The FOSC contractor is responsible for accounting, maintaining, and requisition accounting for all vehicles on the GSA vehicle fleet to satisfy mission requirements and shall coordinate all requirements through the NASA Transportation Officer. This is not a static list and is subject to change due to mission requirements and determinations made by the WSTF Vehicle review board.

The number of vehicles for TEC is 35 (includes sedans, vans, and trucks).

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
0040789	210	CALCULATOR, GRAPHIC	48G	3447S01813	HEWLETT-PACKARD CO BOISE DIV	WS-203	138	100.00	7420
1551311	224	DISK DRIVE UNIT	Z100S2	RABG50P4M1	IOMEGA	WS-200	LABCN	142.00	7025
1551885	219	DISK DRIVE UNIT	Z100P2	RBA601ADJV	IOMEGA	WS-201	136C	142.00	7025
0329282	209	VOLTMETER	901	29933	SOLARTRON F-WESTON INSTR	WS-203	143	145.00	6625
1551846	223	RECORDER, VIDEO CASSETTE	PV8450	A8SC21163	MATSUSHITA ELECTRIC	WS-201	113	147.00	5836
0329661	205	MULTIMETER	77	4416183	FLUKE CORP	WS-203	151	149.00	6625
0839798	831	MULTIMETER	23	50171216	FLUKE CORP	WS-203	107	150.00	6625
1005861	218	DISPLAY UNIT	MM413S	HS0746994	AOC INTERNATIONAL (USA) LTD	WS-200	111	150.00	7025
1551847	220	RECORDER, VIDEO CASSETTE	PV8450	A8SC20609	MATSUSHITA ELECTRIC	WS-255	000	167.00	5836
1550989	231	DISK DRIVE UNIT	Z100P2	RBBG19MOP6	IOMEGA	WS-200	NHB	189.00	7025
0329278	209	MULTIMETER DIGITAL	178	11083	KEITHLEY INSTRUMENTS INC	WS-203	133	200.00	6625
0839597	243	LENS	H6X12.5R	999532	J V C NIVICO VICTOR CO LTD	WS-700	000	210.00	6760
0839573	272	HOIST, CHAIN	622	NONE	COLUMBUS MCKINNON CP CM HOIST	WS-272	0000	228.00	3950
1550556	227	RECORDER, VIDEO	AG1300P	L5KN01738	PANASONIC	WS-200	163	262.00	5836
1235430	207	DISPLAY UNIT	CM1496V	80400208	TATUNG CO	WS-205	000	265.00	7025
0807914	216	LENS, ZOOM	28-200MM	8905621	TOKINA OPTICAL CO	WS-200	204	280.00	6760
0326803	207	SCANNER BEARCAT	BC210-1/210XL	39174	ELECTRA PRODUCTS CO INC	WS-200	161	290.00	5820
0018692	207	OSCILLATOR	204B	416-03232	HEWLETT-PACKARD CO	WS-203	108	300.00	6625
1551337	210	DISPLAY UNIT	H566	626RM000100466	PREMIO TECHNOLOGIES	WS-203	133	309.00	7025
0839714	831	MONITOR, CCTV	CT1030M	KC1230286	PANASONIC	WS-803	104	311.00	5820
1236052	831	RECORDER VIDEO CASSETTE	SV0-1410	30276	SONY CORP	WS-800	101	325.00	5836
1236053	831	RECORDER VIDEO CASSETTE	SV0-1410	29693	SONY CORP	WS-800	101	325.00	5836
1236054	831	RECORDER VIDEO CASSETTE	SV0-1410	30710	SONY CORP	WS-800	205	325.00	5836
1236055	831	RECORDER VIDEO CASSETTE	SV0-1410	29677	SONY CORP	WS-800	101	325.00	5836
1236056	831	RECORDER VIDEO CASSETTE	SV0-1410	29670	SONY CORP	WS-800	101	325.00	5836
1235814	240	DISPLAY UNIT	C1381I	KH2543360	PANASONIC	WS-203	131	329.00	7025
0327013	209	PRINTER, ADP	2225A	2505S31105	HEWLETT-PACKARD CO	WS-203	108	332.00	7025
1551550	223	MONITOR, CCTV	CT1384Y	MB71950410	MATSUSHITA GRAPHIC COMM LTD	WS-200	SHB	338.00	5820
1235918	831	DISPLAY UNIT	CS1572FS	MHL1A6743	GATEWAY COMPANIES INC	WS-800	101	345.00	7025
1236189	209	PRINTER, ADP	FX850	0DN0056867	EPSON AMERICA INC	WS-203	137	350.00	7025
1550560	224	DISPLAY UNIT	CM2015D101	54787620	MAGNAVOX GOVERNMENT AND ELECTR	WS-200	POVCR	350.00	7025
1446185	221	DISPLAY UNIT	CPD15F13	8542461	GATEWAY COMPANIES INC	WS-203	146	354.00	7025
0838599	831	MONITOR, CCTV	CT1030M	KB9310073	PANASONIC	WS-800	CONTR	374.00	5820
0838600	831	MONITOR, CCTV	CT1030M	KA9140653	PANASONIC	WS-800	CTRL	374.00	5820
1551177	222	DISPLAY UNIT	CPDGF100	8018157	GATEWAY COMPANIES INC	WS-800	CTR	381.00	7025
1551355	223	RECORDER, VIDEO CASSETTE	SV01420	512057	SONY CORP	WS-201	117	383.00	5836
0838020	831	PRINTER, ADP	FX286E	P0115984	EPSON AMERICA INC	WS-803	000	389.00	7025
1551255	222	DISPLAY UNIT	JC1572VMA	6600266RA	NEC CORP	WS-201	129	395.00	7025
0328211	239	DISPLAY UNIT	VR201B	KG00300	DIGITAL EQUIPMENT CORP	WS-201	139	400.00	7025
0839700	218	PRINTER, ADP	FX1050	0E11219740	EPSON AMERICA INC	WS-200	PUR	403.00	7025
0838603	831	LENS	WVLZ148AF	8ZA04947	PANASONIC	WS-800	101	405.00	5820
0838604	831	LENS	WVLZ148AF	8ZA04948	PANASONIC	WS-800	101	405.00	5820
0329681	831	DISPLAY UNIT	CT1331Y	FA7620082	PANASONIC	WS-800	CTRL	415.00	7025
1235690	837	LENS	TVJ6B2	59613B	PELCO SALES INC	WS-800	000	418.00	5820
1235691	837	LENS	TVJ6B2	59633B	PELCO SALES INC	WS-800	HFTA	418.00	5820
1235692	837	LENS	TVJ6B2	59503B	PELCO SALES INC	WS-800	000	418.00	5820
1235693	837	LENS	TVJ6B2	59623B	PELCO SALES INC	WS-800	HFTA	418.00	5820
0839885	831	PRINTER, ADP	FX1050	0E112252278	EPSON AMERICA INC	WS-803	000	419.00	7025
1550869	222	DISK DRIVE UNIT	165700	17002485	MICRO SOLUTIONS INC	WS-201	103A	429.00	7025
1550575	210	PRINTER, ADP	P880A	2F91117203	EPSON AMERICA INC	WS-203	145	430.00	7025
1236047	831	DISPLAY UNIT	CS1572FS	MA1521165316	GATEWAY COMPANIES INC	WS-800	101	436.00	7025
1550682	210	DISPLAY UNIT	SRC1502L	61TTB0034740	INFOTEL INC	WS-203	138	446.00	7025
0837878	407	LENS 6X ZOOM MOTORIZED	TVJ6MS	1465-8G	PELCO SALES INC	WS-400	BASE	450.00	5820

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
0837880	407	LENS 6X ZOOM MOTORIZED	TVJ6MS	1469-8H	PELCO SALES INC	WS-300	ROOF	450.00	5820
0837910	407	LENS 6X ZOOM MOTORIZED	TVJ6MS	1467-8G	PELCO SALES INC	WS-302	000	450.00	5820
1235603	831	DISPLAY UNIT	PMV1448NI	TB9E27187	GATEWAY COMPANIES INC	WS-800	116	450.00	7025
0838584	272	MONITOR, CCTV	CT1331Y	FA9460089	PANASONIC	WS-272	S.B0	452.00	5820
1295568	220	DISPLAY UNIT	JCV1535VMA	4X03636EP	NEC CORP	WS-203	131	461.00	7025
1236085	831	MONITOR, CCTV	AV20BP3	11818210	JVC CO OF AMERICA	WS-800	101	474.00	5820
1236087	831	MONITOR, CCTV	AV20BP3	11818218	JVC CO OF AMERICA	WS-800	101	474.00	5820
1236473	220	DISPLAY UNIT	JC1535VMA	4505296EP	NEC CORP	WS-203	131	479.00	7025
1236474	220	DISPLAY UNIT	JC1535VMA	4608806EP	NEC CORP	WS-203	131	479.00	7025
0324466	209	POTENTIOMETER	8686	1648273	LEEDS AND NORTHRUP CO	WS-203	134	485.00	6625
0324253	831	RECEIVING SET, TELEVISION	C19-709A	1780277	NIPPON ELECTRIC CO LTD	WS-800	CTRL	492.00	7730
1236411	831	LENS, CAMERA	WV-LZ148AF	41A00242	MATSUSHITA ELEC INDUS CO	WS-800	108	495.00	6760
1236412	831	LENS, CAMERA	WV-LZ148AF	41A00238	MATSUSHITA ELEC INDUS CO	WS-800	101	495.00	6760
0323249	205	METER AMP DC MICROVOLT	425A	1425707	HEWLETT-PACKARD CO	WS-203	151	500.00	6625
0326425	209	MULTIMETER DIGITAL	172A	14100	KEITHLEY INSTRUMENTS INC	WS-203	134	500.00	6625
0327337	251	MONITOR, COLOR CROSS-PULSE	NONE	KA5350087	PANASONIC	WS-203	115	500.00	7025
0329636	201	DISPLAY UNIT	35731A	8808K50567	HEWLETT-PACKARD CO	WS-203	108	500.00	7025
0838538	214	METER, LASER POWER/ENERGY	362002	660	SCIENTECH INC	WS-201	134	500.00	6625
0838747	240	DISPLAY UNIT	JC1403HMA	98N077312	NEC TECHNOLOGIES INC FRMLY NEC	WS-200	142	500.00	7025
0838976	237	TERMINAL, DATA PROCESSING	F500E31-2000	466664	FALCO DATA PRODUCTS	WS-800	HPTA	500.00	7025
0838979	237	TERMINAL, DATA PROCESSING	F500E31-2000	466670	FALCO DATA PRODUCTS	WS-800	208	500.00	7025
0838980	243	TERMINAL, DATA PROCESSING	F500E31-2000	466403	FALCO DATA PRODUCTS	WS-800	000	500.00	7025
0838981	237	TERMINAL, DATA PROCESSING	F500E31-2000	466387	FALCO DATA PRODUCTS	WS-270	000	500.00	7025
0838982	243	TERMINAL, DATA PROCESSING	F500E31-2000	466402	FALCO DATA PRODUCTS	WS-700	CTRL	500.00	7025
0838983	237	TERMINAL, DATA PROCESSING	F500E31-2000	466665	FALCO DATA PRODUCTS	WS-805	000	500.00	7025
0838984	243	TERMINAL, DATA PROCESSING	F500E31-2000	466404	FALCO DATA PRODUCTS	WS-201	105	500.00	7025
0838985	243	TERMINAL, DATA PROCESSING	F500E31-2000	466397	FALCO DATA PRODUCTS	WS-252	000	500.00	7025
0839011	405	DISPLAY UNIT	725-00303-00	KW3/348	CONCURRENT COMPUTER CORP	WS-400	106	500.00	7025
0839173	237	DISPLAY UNIT	420T	02414544M360	COMPAQ COMPUTER CORP	WS-800	HFTA	500.00	7025
1005473	214	METER, LASER POWER/ENERGY	36-4001	104	SCIENTECH INC	WS-201	134	500.00	6625
1005606	221	DISPLAY UNIT	D1182A	9127J33331	HEWLETT-PACKARD CO	WS-203	124	500.00	7025
1236267	221	DISPLAY UNIT	JC1535VMA	3X01721CB	NEC CORP	WS-200	STORG	500.00	7025
1236283	5	DISPLAY UNIT	JC1535VMA	3X01739CB	NEC CORP	WS-201	133	500.00	7025
1236290	221	DISPLAY UNIT	JC1535VMA	3X01724CB	NEC CORP	WS-203	127	500.00	7025
1236297	222	DISPLAY UNIT	CS1024NI2	TB1813017088	GATEWAY COMPANIES INC	WS-800	000	500.00	7025
1236299	222	PRINTER,ADP	P80SA	44B1093480	EPSON AMERICA INC	WS-800	000	500.00	7025
1236309	221	DISPLAY UNIT	JC1535VMA	3X01863CB	NEC CORP	WS-200	142	500.00	7025
1236312	237	DISPLAY UNIT	JC1535VMA	3X01735CB	NEC CORP	WS-800	HFTA	500.00	7025
1236315	252	DISPLAY UNIT	SM5515G	553S009326C	ADI CORP	WS-200	110A	500.00	7025
1236332	237	DISPLAY UNIT	JC1535VMA	3X01749CB	NEC CORP	WS-800	HFTA	500.00	7025
1236334	237	DISPLAY UNIT	JC1535VMA	3X01746CB	NEC CORP	WS-800	HFTA	500.00	7025
1236338	209	DISPLAY UNIT	JC1535VMA	3X01730CB	NEC CORP	WS-203	133	500.00	7025
1236347	240	DISPLAY UNIT	JC1535VMA	3X01720CB	NEC CORP	WS-800	HFTA	500.00	7025
1236351	831	DISPLAY UNIT	JC1535VMA	3X01742CB	NEC CORP	WS-800	CTRL	500.00	7025
1236353	231	DISPLAY UNIT	JC1535VMA	3X01771CB	NEC CORP	WS-200	MZ1	500.00	7025
1236363	220	DISPLAY UNIT	JC1535VMA	3X01764CB	NEC CORP	WS-203	131	500.00	7025
1551702	217	DISPLAY UNIT	38D05IMAXI	173060016	EDAX INT'L F-NUCLEAR DIODES	WS-203	000	500.00	7025
1551819	832	DISPLAY UNIT	78I	708KG04996	GOLDSTAR CO LTD	WS-802	000	500.00	7025
1602893	272	GUNS, RIFLE	30-06	6365684	REMINGTON ARMS CO INC	WS-272	0000	500.00	1005
1654806	272	CAMERA, DIGITAL	MVC-FD73	1255541	SONY CORP	WS-203	SHB0	500.00	6720
1654807	272	CAMERA, DIGITAL	MVC-FD73	1259672	SONY CORP	WS-272	0000	500.00	6720
0326961	207	BASE STATION	L43GGR-1100A	I-90985	MOTOROLA INC	WS-200	161B	505.00	5820
1551424	408	MONITOR	TMA9U	17150665	JVC CO OF AMERICA	WS-400	106	505.00	5820

This list is current as of the release date of the RFP

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
1551425	408	MONITOR	TMA9U	9251306	JVC CO OF AMERICA	WS-400	105	505.00	5820
1551426	408	MONITOR	TMA9U	9251439	JVC CO OF AMERICA	WS-400	106	505.00	5820
1551427	408	MONITOR	TMA9U	17150721	JVC CO OF AMERICA	WS-400	105	505.00	5820
1930950	272	PRINTER, ADP	LASERJET 1220	CNCG030297	HEWLETT PACKARD CO DIS	WS-272	N.B	509.00	7025
0329692	407	DISPLAY UNIT	CF2647	76430809	TOSHIBA AMERICA INC	WS-400	104	510.00	7025
0329693	407	DISPLAY UNIT	CF2647	23538351	TOSHIBA AMERICA INC	WS-400	104	510.00	7025
0329694	407	DISPLAY UNIT	CF2647	23538347	TOSHIBA AMERICA INC	WS-400	104	510.00	7025
0329695	407	DISPLAY UNIT	CF2647	76430821	TOSHIBA AMERICA INC	WS-300	102	510.00	7025
0329696	407	DISPLAY UNIT	CF2647	76430785	TOSHIBA AMERICA INC	WS-400	104	510.00	7025
1551023	215	PRINTER, ADP	C4555A	US66E13011V	HEWLETT-PACKARD CO BOISE DIV	WS-203	108	510.00	7025
0838605	252	MONITOR, CCTV	BTS1000N	KA9320166	PANASONIC	WS-200	100A	515.00	5820
1550546	227	DISPLAY UNIT	SRC1703LD	61TTC0005065	INFOTEL INC	WS-200	163	515.00	7025
1654808	5	LENS, CAMERA	8-48MM	NONE	PENTAX CORP	WS-800	119	515.00	6760
0323521	408	PRINTER, ADP	8501BCD	BCD208343M	ITOH CO LTD IND ELECT DIV	WS-400	105	517.00	7025
1651257	228	CAMERA	MVC-CD500	372077	SONY CORP	WS-200	CLEAN	519.00	6710
0324361	227	MONITOR, CCTV	CT-1920M	UG4113942	MATSUSHITA ELEC INDUS CO	WS-200	151	520.00	5820
0326703	255	DISPLAY UNIT	BTS1300N	EH5250151	PANASONIC	WS-252	000	520.00	7025
0325231	252	LENS CAMERA	43974	43974	TELEDYNE CAMERA SYSTEMS	WS-200	100A	522.00	6760
0772861	237	PRINTER, ADP	DPP-7A3	59410179	DATEL OF WYOMING INC	WS-800	208	524.00	6625
0324531	207	METER VOLT RMS	3400A	32200120	HEWLETT-PACKARD CO	WS-203	108	525.00	6625
0324618	201	METER VOLT RMS	3400	32200195	HEWLETT-PACKARD CO	WS-203	108	525.00	6625
0838581	209	PRINTER, ADP	FX1050	0E10011696	EPSON AMERICA INC	WS-203	137	525.00	7025
1931459	420	COMPUTER	H5150	KRD3250JVK	HEWLETT PACKARD CO DIS	WS-101	212	525.00	7021
1931460	420	COMPUTER	H5150	KRD3250JYM	HEWLETT PACKARD CO DIS	WS-101	212	525.00	7021
0703680	211	MULTIMETER	DM501	B106088	TEKTRONIX INC	WS-203	108	528.00	6625
0326736	237	CALIBRATOR, DIGITAL	DVC-8500A	37201083	DATEL OF WYOMING INC	WS-800	208	529.00	6625
1551661	215	DISPLAY UNIT	PM700M	FBLU7502681U	PERIMAX	WS-203	108	529.00	7025
1551837	237	DISPLAY UNIT	78I	709KG03671	GOLDSTAR CO LTD	WS-800	208	529.00	7025
1930241	220	LIFT, PORTABLE HYDRAULIC	H5	203846	VESTIL MANUFACTURING COMPANY	WS-203	STORA	529.00	3990
0807803	216	LENS	75MM F/2.8	4033675	PENTAX CORP	WS-200	102	530.00	6760
0838949	225	MONITOR, CCTV	CT2010Y	FA9650366	PANASONIC	WS-201	107	530.00	5820
0328524	405	PRINTER, ADP	C215	XP301153MM	ITOH CO LTD IND ELECT DIV	WS-400	106	534.00	7025
0327748	221	DISPLAY UNIT	JC1401P3A	64C05162U	NEC TECHNOLOGIES INC FRMLY NEC	WS-203	147	535.00	7025
0773050	216	CAMERA BODY	NONE	2-7898358	NIKON INC	WS-200	102	535.00	6720
0328359	221	PRINTER, ADP	FX386E	5013224	EPSON AMERICA INC	WS-200	STORG	540.00	7025
1236181	406	DISPLAY UNIT	JC1535VMA	3X00207CB	NEC ELECTRONICS USA INC	WS-203	130	540.00	7025
1931922	201	SET, TELEVISION	KV32FS120	4051788	SONY CORP	WS-203	000	540.00	7730
1552016	837	DISPLAY UNIT	VCDTS21369	6G81669629	VIEWSONIC CORP/ DIV KEYPOINT	WS-801	000	541.00	7025
1552017	803	DISPLAY UNIT	VCDTS21369	6G81669654	VIEWSONIC CORP/ DIV KEYPOINT	WS-201	113	541.00	7025
1235998	218	COMBINATION TV/VCR	AG520A	F3AA10333	PANASONIC	WS-200	208	545.00	5836
0327080	837	LENS 16MM F1.4	NONE	13423186	SCHNEIDER JOS UND CO	WS-800	C832	546.00	6760
0839234	242	LENS ZOOM	H628512AMS	10420H	COMPUTAR	WS-272	000	547.00	6760
0839235	242	LENS ZOOM	H28512AMS	10390H	COMPUTAR	WS-272	000	547.00	6760
0839236	242	LENS ZOOM	H6Z8512AMS	10440H	COMPUTAR	WS-272	000	547.00	6760
0839237	242	LENS ZOOM	H6Z8512AMS	10450H	COMPUTAR	WS-272	000	547.00	6760
1931208	242	DISPLAY UNIT	AS120	0500756LQ	NEC CORP	WS-201	000	548.00	7025
1235703	837	MONITOR, CCTV	CT2583VY	AR30550185	PANASONIC	WS-800	CTRL	549.00	5820
1235704	837	MONITOR, CCTV	CT2583VY	AR30550186	PANASONIC	WS-800	CTRL	549.00	5820
0326901	204	PRINTER, ADP	GA44	D74999	VWR SCIENTIFIC INC	WS-203	144	550.00	7025
0328303	402	CALCULATOR, ELECTRONIC	41CX	2536S20829	HEWLETT-PACKARD CO	WS-362	000	550.00	7420
1654809	831	CAMERA, DIGITAL	MVC-FD90	181385	SONY CORP	WS-803	104	550.00	6720
1930687	223	COMPUTER, POCKET	JORNADA 540	SG05045129	HEWLETT PACKARD CO DIS	WS-201	117	550.00	7021
1930688	223	COMPUTER, POCKET	JORNADA 540	SG05045478	HEWLETT PACKARD CO DIS	WS-201	120	550.00	7021

This list is current as of the release date of the RFP

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
)327952	217	PRINTER, ADP	FX286	4024989	EPSON AMERICA INC	WS-255	000	551.00	7025
)327956	831	PRINTER, ADP	FX286	15023547	EPSON AMERICA INC	WS-803	000	551.00	7025
.931760	407	DVD PLAYER	DMR-E85HP	KV4DA009376	PANASONIC	WS-462	000	551.00	5836
.551654	832	DISPLAY UNIT	PM700M	FBLU7502748U	PERIMAX	WS-802	000	552.00	7025
.551667	201	DISPLAY UNIT	PM700M	FBLU7502710U	PERIMAX	WS-203	108	552.00	7025
.551668	406	DISPLAY UNIT	PM700M	FBLU7502674U	PERIMAX	WS-400	106	552.00	7025
.551674	215	DISPLAY UNIT	PM700M	FBLU7502702U	PERIMAX	WS-203	108	552.00	7025
.551675	210	DISPLAY UNIT	PM700M	FBLU7502717U	PERIMAX	WS-203	145	552.00	7025
.551676	215	DISPLAY UNIT	PM700M	FBLU7502699U	PERIMAX	WS-203	134	552.00	7025
1551677	215	DISPLAY UNIT	PM700M	FBLU7502721U	PERIMAX	WS-203	108	552.00	7025
1551678	215	DISPLAY UNIT	PM700M	FBLU7502720U	PERIMAX	WS-203	108	552.00	7025
1551680	215	DISPLAY UNIT	PR500	OH272600990	CTX INTL	WS-203	143	552.00	7025
1551690	242	DISPLAY UNIT	JC1746UMA	7701152KL	NEC CORP	WS-201	105	552.00	7021
)807913	252	CAMERA	WV-CL320	44B17245	PANASONIC	WS-200	203A	556.00	5836
)329676	252	RECORDER VIDEO CASSETTE	AG2500	B8HE00297	PANASONIC	WS-200	110A	557.00	5820
1005390	837	DISPLAY UNIT	BT-S1300N	EH1410001	PANASONIC	WS-800	CTRL	557.00	5820
1446387	831	DISPLAY UNIT	MONO17004AAWW	MH2754190734	GATEWAY COMPANIES INC	WS-800	116	558.00	7021
1550543	224	DISPLAY UNIT	SRC1703LD	61TTC0005075	INFOTEL INC	WS-200	111	558.00	7025
1551765	221	DISPLAY UNIT	78I	707KG01263	GOLDSTAR CO LTD	WS-203	146	559.00	7025
1930144	406	DISPLAY UNIT	JC-1941UMA	8403416XD	NEC TECHNOLOGIES INC FRMLY NEC	WS-411	000	559.00	7025
0019173	252	LENS	11-70MM	102458	CANON INC	WS-200	100A	560.00	6760
0040819	216	LENS	645	4134023	PENTAX CORP	WS-200	102	560.00	6760
0838601	831	MONITOR, CCTV	BTS702N	KA9250412	PANASONIC	WS-800	CTRL	562.00	5820
0838602	831	MONITOR, CCTV	BTS702N	KA9250413	PANASONIC	WS-800	CTRL	562.00	5820
0838795	831	DISPLAY UNIT	BT-S702N	KA9560243	PANASONIC	WS-800	CTRL	562.00	5820
0838796	831	DISPLAY UNIT	BT-S702N	KA9560242	PANASONIC	WS-800	CTRL	562.00	5820
0807772	216	LENS	120MM F/4	4108667	PENTAX CORP	WS-200	102	570.00	6760
0326177	255	MONITOR, TELEVISION	C19-709A	1780658	NEC AMERICA INC	WS-252	000	574.00	5836
0326987	255	LENS ZOOM MOTORIZED	TV6-AND	3010-3	PELCO SALES INC	WS-250	000	574.00	6760
0327313	231	TYPEWRITER	NONE	6344005	INTERNATIONAL BUSINESS MACHINE	WS-200	MZ3	575.00	7430
1005518	240	DISPLAY UNIT	JC1532VMA	21M12751A	NEC ELECTRONICS USA INC	WS-201	130	575.00	7025
1930026	250	LENS,CAMERA	TVT12AC-1	58056L	PELCO SALES INC	WS-800	107	576.00	6760
1930027	250	LENS,CAMERA	TVT12AC-1	60677A	PELCO SALES INC	WS-800	110	576.00	6760
1552040	221	DISPLAY UNIT	7VLR	APF080108680	AOC INTERNATIONAL	WS-200	136A	577.00	7025
1552043	242	DISPLAY UNIT	7VLR	APF080108309	AOC INTERNATIONAL	WS-272	GUNRM	577.00	7025
1552046	240	DISPLAY UNIT	7VLR	APF080108688	AOC INTERNATIONAL	WS-201	137	577.00	7025
1005581	219	DISPLAY UNIT	JC1532VMA-N	21M16495A	NEC ELECTRONICS USA INC	WS-255	255A	579.00	7025
0018947	216	LENS	210/5.6	14343462	SCHNEIDER JOS UND CO	WS-200	102	580.00	6760
1005418	252	LENS	TVH5AC	1886	PELCO SALES INC	WS-200	100A	580.00	5820
0838913	242	RECORDER VIDEO CASSETTE	AG1730	AOMB00776	PANASONIC	WS-272	GUNRM	581.00	5836
1005391	837	RECORDER VIDEO CASSETTE	AG1730	11MC00323	PANASONIC	WS-800	CTRL	581.00	5836
0324527	207	MONITOR, STATION FREQUENCY	T1130A	2382	MOTOROLA INC	WS-205	000	586.00	5820
0807743	216	LENS	135MM F/4	4038598	PENTAX CORP	WS-200	102	587.00	6760
1550732	221	DISPLAY UNIT	1769DC	3261508200	VIEW SONIC	WS-200	128	589.00	7025
1931574	222	DISPLAY UNIT	FP2141	3X100128YA	NEC CORP	WS-201	144	594.00	7025
1931575	222	DISPLAY UNIT	FP2141	3X100123YA	NEC CORP	WS-201	144	594.00	7025
0018877	243	MULTIMETER	45	4831147	FLUKE CORP	WS-700	CTRL	595.00	6625
0324542	207	METER VOLT SEN BROAD-BAND RF	91H	7135	BOONTON ELECTRONICS CORP	WS-205	000	595.00	6625
1551608	231	DISPLAY UNIT	PV772IM	FDBLU7166972	PERIMAX	WS-200	CTF	596.00	7025
1005747	237	DISK DRIVE UNIT	90	UNKNOWN	IOMEGA	WS-800	208	598.00	7025
1005787	202	DISK DRIVE UNIT	90	UNKNOWN	IOMEGA	WS-203	151	598.00	7025
0839086	252	DISPLAY UNIT	BT-S1300N	EH0340167	PANASONIC	WS-200	100A	599.00	5820
1005820	223	DISK DRIVE UNIT	90	UNKNOWN	IOMEGA	WS-800	000	599.00	7025

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
1235523	221	DISK DRIVE UNIT	90	UNKNOWN	IOMEGA	WS-203	124	599.00	7025
1235664	242	DISK DRIVE UNIT	90	JD63040070	IOMEGA	WS-201	144	599.00	7025
1236040	407	MONITOR, CCTV	CS26301	8803	MITSUBISHI ELECTRIC CORP	WS-300	102	599.00	5820
1236041	407	MONITOR, CCTV	CS26301	8821	MITSUBISHI ELECTRIC CORP	WS-300	102	599.00	5820
1236042	407	MONITOR, CCTV	CS26301	8778	MITSUBISHI ELECTRIC CORP	WS-300	102	599.00	5820
1236043	407	MONITOR, CCTV	CS26301	8822	MITSUBISHI ELECTRIC CORP	WS-300	102	599.00	5820
0323248	205	METER MILLIAMP CLIP-ON DC	428B	13101661	HEWLETT-PACKARD CO	WS-203	151	600.00	6625
0325546	205	METER MILLIAMP CLIP-ON DC	428B	131-02045	HEWLETT-PACKARD CO	WS-203	151	600.00	6625
0327522	408	DISPLAY UNIT	WA100	491-93260013	WELCH ALLYN INC	WS-400	106	600.00	7025
0329613	240	DISPLAY UNIT	JC1401HMA	83G001862	NEC TECHNOLOGIES INC FRMLY NEC	WS-800	208	600.00	7025
0329734	217	DISPLAY UNIT	JC1402-HMA	7ZD05794T	NEC TECHNOLOGIES INC FRMLY NEC	WS-255	000	600.00	7025
0329954	420	PRINTER, ADP	FX286E	8072952	EPSON AMERICA INC	WS-400	106A	600.00	7025
0772927	207	VOLTMETER	403B	0986A11564	HEWLETT-PACKARD CO	WS-205	000	600.00	6625
0772929	207	OSCILLATOR	204C	0989A05908	HEWLETT-PACKARD CO	WS-205	000	600.00	6625
0807742	207	VOLTMETER	403B	523-08123	HEWLETT-PACKARD CO	WS-203	108	600.00	6625
0837972	837	DISPLAY UNIT	JC1401HMA	85D66904Z	NEC TECHNOLOGIES INC FRMLY NEC	WS-800	208A	600.00	7025
0838033	237	DISPLAY UNIT	JC1401HMA	88K53881N	NEC TECHNOLOGIES INC FRMLY NEC	WS-800	208	600.00	7025
0838297	240	DISPLAY UNIT	JC1401HMA	8ZD60185K	NEC TECHNOLOGIES INC FRMLY NEC	WS-800	208	600.00	7025
0839780	305	GENERATOR, TIME CODE	601/2	216	MAGNASYNC/MOVIOLA CORP	WS-300	107	600.00	6625
1235538	252	RECORDER VIDEO CASSETTE	HR-S4700U	117N1573	JVC CO OF AMERICA	WS-200	101A	600.00	5836
1295629	237	DISPLAY UNIT	MON017004AAWW	MH2754049931	GATEWAY COMPANIES INC	WS-800	HFTA	600.00	7025
1551063	221	DISPLAY UNIT	D2818A	KR62592718	HEWLETT-PACKARD CO BOISE DIV	WS-200	128	600.00	7025
1552056	237	DISPLAY UNIT	S763	8114Y002J00448	SCEPTRE	WS-800	HFTA	600.00	7025
1552074	221	DISPLAY UNIT	VIEWSONICEA771	JM75219281	VIEWSONIC CORP/ DIV KEYPOINT	WS-200	128	600.00	7025
1552087	231	DISPLAY UNIT	P73A	8264Y002J00222	SCEPTRE	WS-200	MZ1	600.00	7025
1552091	406	DISPLAY UNIT	P73A	8264Y002J00227	SCEPTRE	WS-462	000	600.00	7025
1552098	231	DISPLAY UNIT	V773	6G80759638	OPTIQUEST INC	WS-200	OMS	600.00	7025
1552099	406	DISPLAY UNIT	V773	6G80759637	OPTIQUEST INC	WS-400	000	600.00	7025
1552115	242	DISPLAY UNIT	P73A	8024Y002J01018	SCEPTRE	WS-272	GUNRM	600.00	7025
1552139	306	DISPLAY UNIT	77W	803KG00058	LG ELECTRONICS/ GOLDSTAR	WS-362	000	600.00	7025
1651201	406	DISPLAY UNIT	E171FP	MX08R339476052ATAPD	DELL COMPUTER CORP F-PC'S LTD	WS-462	000	600.00	7025
1930070	215	DISPLAY UNIT	P73A	8324YA02J00038	SCEPTRE	WS-203	108	600.00	7025
1930077	406	DISPLAY UNIT	P73A	8304Y002J00263	SCEPTRE	WS-411	000	600.00	7025
1930106	306	DISPLAY UNIT	P73A	8324YA02J00339	SCEPTRE	WS-300	000	600.00	7025
1930441	8	MONITOR	P1110	2966418	DELL COMPUTER CORP F-PC'S LTD	WS-364	000	600.00	7025
1930475	404	DISPLAY UNIT	C100101	G9KH00145	CORNERSTONE TECHNOLOGY	WS-300	102B	600.00	7025
1930493	8	DISPLAY UNIT	UNKNOWN	JP09171R4774305Q35Z	DELL COMPUTER CORP F-PC'S LTD	WS-364	100	600.00	7025
1930829	406	DISPLAY UNIT	P1130	LAST#'S G-7049	DELL COMPUTER CORP F-PC'S LTD	WS-462	000	600.00	7025
1930830	406	DISPLAY UNIT	P1130	LAST#'S G-7048	DELL COMPUTER CORP F-PC'S LTD	WS-462	000	600.00	7025
1930834	420	DISPLAY UNIT	G1000	020058T0201553	MICROSCAN SYSTEMS INC	WS-101	000	600.00	7025
1931044	306	DISPLAY UNIT	1800FP	KR07R47735830Z6J001	DELL COMPUTER CORP F-PC'S LTD	WS-362	000	600.00	7025
1106+A1	115	DISPLAY UNIT	P992	8D466	DELL COMPUTER CORP F-PC'S LTD	WS-113	000	600.00	7025
1931199	231	DISPLAY UNIT	1702FP	8G152	DELL COMPUTER CORP F-PC'S LTD	WS-200	MZ2	600.00	7025
1931381	252	COMPUTER	SC-762	42W031800003	XI COMPUTER CORP.	WS-200	102A	600.00	7025
1931382	252	DISPLAY UNIT	P225FB	42W031800159	VIEW SONIC	WS-200	110A	600.00	7025
1931384	252	DISPLAY UNIT	P225FB	42W031800104	VIEW SONIC	WS-200	102A	600.00	7025
1931913	252	DISPLAY UNIT	P225FB	42W031800009	VIEW SONIC	WS-200	101A	600.00	7025
1235812	237	DISK DRIVE UNIT	90	UNKNOWN	IOMEGA	WS-800	208	605.00	7025
0328103	252	LENS VIDEO ZOOM	H10X11B	129172	FUJI OPTICAL CO	WS-200	100A	606.00	6760
0328104	252	LENS VIDEO ZOOM	H10X11B	129706	FUJI OPTICAL CO	WS-200	100A	606.00	6760
0839961	837	LENS, ZOOM	TVH6AC	18751I	PELCO SALES INC	WS-800	C830	606.00	5820
1550796	231	DISPLAY UNIT	1769DC	3262213387	VIEW SONIC	WS-200	MZ2	608.00	7025
0839406	304	PROJECTOR, OVERHEAD	2100AJAT	539475	MINN MINING & MFG CO VISUAL	WS-300	104	609.00	6730

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ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
1551606	140	DISPLAY UNIT	DX15T	HD42GC020962	MAG TECHNOLOGY CO	WS-203	107	612.00	7025
1551866	222	DISPLAY UNIT	KD7300	281012053	KOREA DATA SYSTEMS CO LTD	WS-201	105	612.00	7025
1931285	406	PRINTER, ADP	LASERJET 1200	CNDX034940	HEWLETT PACKARD CO DIS	WS-412	000	613.00	7025
1551619	407	RECEIVING SET, TELEVISION	PS27115	717511454	PROSCAN	WS-400	105	618.00	7730
1551620	407	RECEIVING SET, TELEVISION	PS27115	723410479	PROSCAN	WS-400	105	618.00	7730
1551621	407	RECEIVING SET, TELEVISION	PS27115	723410705	PROSCAN	WS-400	105	618.00	7730
1551622	407	RECEIVING SET, TELEVISION	PS27115	723410185	PROSCAN	WS-400	105	618.00	7730
1551623	407	RECEIVING SET, TELEVISION	PS27115	723410203	PROSCAN	WS-400	105	618.00	7730
1551625	407	RECEIVING SET, TELEVISION	PS27115	723410228	PROSCAN	WS-300	102	618.00	7730
1551626	407	RECEIVING SET, TELEVISION	PS27115	723310163	PROSCAN	WS-300	102	618.00	7730
1551627	407	RECEIVING SET, TELEVISION	PS27115	723410195	PROSCAN	WS-300	102	618.00	7730
1551628	407	RECEIVING SET, TELEVISION	PS27115	723410480	PROSCAN	WS-300	102	618.00	7730
1551629	407	RECEIVING SET, TELEVISION	PS27115	723410226	PROSCAN	WS-400	105	618.00	7730
1551630	407	RECEIVING SET, TELEVISION	PS27115	717511456	PROSCAN	WS-400	105	618.00	7730
0326865	207	GENERATOR PULSE	8013A	1230A-10497	HEWLETT-PACKARD CO	WS-205	000	619.00	6625
1295520	407	LENS	TVH10M1	37764J	PELCO SALES INC	WS-300	000	620.00	6760
1295521	407	LENS	TVH10M1	37724J	PELCO SALES INC	WS-300	000	620.00	6760
1550757	252	CAMERA, VIDEO	AD850	8115091	AMERICAN DYNAMICS	WS-800	834E	620.00	5820
0327478	237	DISPLAY UNIT	5154001	144479	INTERNATIONAL BUSINESS MACHINE	WS-800	CTR	621.00	7025
0327981	252	RECEIVER/MONITOR 12' COLOR	CVM-1271	2005950	SONY CORP OF AMERICA	WS-200	110A	622.00	5820
1551567	221	DISPLAY UNIT	V773	3G71927400	VIEWSONIC CORP/ DIV KEYPOINT	WS-203	124	622.00	7025
1551569	231	DISPLAY UNIT	V773	3G71927384	VIEWSONIC CORP/ DIV KEYPOINT	WS-200	MZ1	622.00	7025
1551570	306	DISPLAY UNIT	V773	3G71927418	VIEWSONIC CORP/ DIV KEYPOINT	WS-400	105	622.00	7025
1551572	231	DISPLAY UNIT	V773	3G71927421	VIEWSONIC CORP/ DIV KEYPOINT	WS-200	MZ1	622.00	7025
1235475	223	MONITOR, CCTV	2582	AN123440168	PANASONIC	WS-201	113	624.00	5820
1930680	406	PRINTER, ADP	3200	USCH073015	HEWLETT PACKARD CO DIS	WS-462	102	625.00	7025
1930681	406	PRINTER, ADP	3200	USCH072943	HEWLETT PACKARD CO DIS	WS-462	101	625.00	7025
1551746	231	DISPLAY UNIT	78I	706KG03220	GOLDSTAR CO LTD	WS-200	MZ1	631.00	7025
0324756	210	BRIDGE, MEGOHM	1644A	486	GENRAD INC EMT ELECTRONIC TEST	WS-203	134	633.00	6625
0324891	210	BREDGE, MEGOHM	1644A	469	GENRAD INC EMT ELECTRONIC TEST	WS-203	143	633.00	6625
1550946	201	DISPLAY UNIT	SRC1703L	65TTC0341090	INFOTEL INC	WS-203	108	633.00	7025
0328791	831	RECORDER VIDEO CASSETTE	AG2500	F7HF01032	PANASONIC	WS-800	CTRL	635.00	5820
0328792	252	RECORDER VIDEO CASSETTE	AG2500	F7HF01037	PANASONIC	WS-200	100A	635.00	5820
0328794	831	RECORDER VIDEO CASSETTE	AG2500	F7HF00309	PANASONIC	WS-800	CTRL	635.00	5820
1931688	207	DISPLAY UNIT	193S	GY19H9NX252110	SAMSUNG ELECTRONICS	WS-119	000	635.00	7025
1931689	207	DISPLAY UNIT	193S	GY19H9NX252095	SAMSUNG ELECTRONICS	WS-119	000	635.00	7025
1550763	406	DISPLAY UNIT	1782DC	3361900698	VIEW SONIC	WS-412	000	637.00	7025
1550788	306	DISPLAY UNIT	1782DC	3361900619	VIEW SONIC	WS-320	000	637.00	7025
1551714	221	DISK DRIVE UNIT	V1000S	WIMU410XYM	IOMEGA	WS-203	146	639.00	7025
1551715	221	DISK DRIVE UNIT	V1000S	WIMU410XYN	IOMEGA	WS-203	146	639.00	7025
1005750	219	DISK DRIVE UNIT	90	UNKNOWN	IOMEGA	WS-255	255A	641.00	7025
1552053	221	RECORDER TEMERATURE	CT485B	801104969W1	OMEGA ENGINEERING INC	WS-203	107	642.00	6685
1930270	170	RECORDER TEMERATURE	CT485B	90107843W1	OMEGA ENGINEERING INC	WS-113	QA	642.00	6685
1930529	407	CAMERA, VIDEO	WV-CP454	9ZB07456	PANASONIC	WS-400	000	642.00	6710
1930530	407	CAMERA, VIDEO	WV-CP454	9ZB07520	PANASONIC	WS-401	000	642.00	6710
1930531	407	CAMERA, VIDEO	WV-CP454	9ZB07469	PANASONIC	WS-401	000	642.00	6710
1446336	221	DISPLAY UNIT	CPD17F13	7045287	GATEWAY COMPANIES INC	WS-200	142	646.00	7025
0328771	252	RECORDER VIDEO CASSETTE	BV747	E7SA30372	CURTIS MATHES	WS-200	100A	649.00	5820
0328959	252	RECORDER VIDEO CASSETTE	BV747	E7SA30346	CURTIS MATHES	WS-200	100A	649.00	5820
1930484	231	PRINTER, ADP	WORKCENTRE 385	ERO-046212	XEROX CORP	WS-200	MZ3	649.00	7025
1931101	803	SCANNER	7450C	CN25HS0936	HEWLETT PACKARD CO DIS	WS-201	103	649.00	7025
0328657	831	DISPLAY UNIT	JC1401P3A	74D04356W	NEC TECHNOLOGIES INC FRMLY NEC	WS-803	000	650.00	7025
1930232	216	CAMERA, INSTANT	203	K84170G	POLAROID CORP	WS-200	102	650.00	6720

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Nation Stock #	Document Control #
930394	227	RECORDER, TEMP/HUMIDITY	CT485B-110-W-AL	91009497W1	OMEGA INSTRUMENTS CO	WS-200	CTF	650.00	6685
551164	250	CAMERA, CCTV	VDC2974	67800668C5	SANYO DENKI CO LTD	WS-200	100A	653.00	5820
236120	407	LENS	TVH10MS1	23843J	PELCO SALES INC	WS-401	000	654.00	5820
236121	407	LENS	TVH10MS1	23853J	PELCO SALES INC	WS-328	000	654.00	5820
236122	407	LENS	TVH10MS1	23863J	PELCO SALES INC	WS-401	000	654.00	5820
236123	407	LENS	TVH10MS1	23403J	PELCO SALES INC	WS-405	000	654.00	5820
236124	407	LENS	TVH10MS1	23413J	PELCO SALES INC	WS-401	000	654.00	5820
236125	407	LENS	TVH10MS1	23463J	PELCO SALES INC	WS-401	000	654.00	5820
005782	405	MULTIMETER	45	S450109	FLUKE CORP	WS-400	BKR2	655.00	6625
550608	405	MULTIMETER	45	6521039	FLUKE CORP	WS-400	101	656.00	6625
550609	405	MULTIMETER	45	6522015	FLUKE CORP	WS-400	BKR2	656.00	6625
550838	231	DISPLAY UNIT	SRC1703L	65TTC0341156	INFOTEL INC	WS-200	MZ1	656.00	7025
328032	407	HOUSING CAMERA EXPLOSION PROOF	EHX-8	516-6K	PELCO SALES INC	WS-403	CELL	660.00	6760
551734	221	DISPLAY UNIT	78I	706KG02877	GOLDSTAR CO LTD	WS-203	146	660.00	7025
551735	221	DISPLAY UNIT	78I	707KG01245	GOLDSTAR CO LTD	WS-203	111	660.00	7025
551737	221	DISPLAY UNIT	78I	706KG03011	GOLDSTAR CO LTD	WS-203	146	660.00	7025
324539	207	REMOTE CONTROL	TI604BM	222CEL0416	MOTOROLA INC	WS-200	161	661.00	5820
325828	207	REMOTE CONTROL	TI604BM	222CEL0418	MOTOROLA INC	WS-300	BLK	661.00	5820
839527	304	MEGOHMMETER	MG251	A5100	DAVIS INSTRUMENT MFG CO INC	WS-300	115	665.00	6625
327049	407	RECEIVING SET, TELEVISION	JKR985	529680015	RCA CORP INFO SYS DIV	WS-300	102	668.00	7730
327051	407	RECEIVING SET, TELEVISION	JKR985	529680013	RCA CORP INFO SYS DIV	WS-400	BASE	668.00	7730
930202	219	PRINTER	1175CXI	SBG89C08GT	HEWLETT-PACKARD	WS-201	209	669.00	7025
323040	216	TYPEWRITER	CORRECT SELECT III	6.70511E+12	INTERNATIONAL BUSINESS MACHINE	WS-200	102	670.00	7430
325319	831	TYPEWRITER	6705-B01	4747325	INTERNATIONAL BUSINESS MACHINE	WS-803	000	670.00	7430
839903	221	DISPLAY UNIT	DM1401	3100679	SEIKO INSTRUMENTS USA	WS-200	128	670.00	7025
930024	216	POWER SUPPLY	ILK-5	7832029	OLYMPUS OPTICAL CO LTD	WS-200	102	670.00	6120
325618	408	TYPEWRITER	895	26 3570032	INTERNATIONAL BUSINESS MACHINE	WS-400	105	673.00	7430
325705	224	TYPEWRITER	895	26-3570027	INTERNATIONAL BUSINESS MACHINE	WS-200	LABCN	673.00	7430
446401	420	DISPLAY UNIT	C1791EI	FB5221524	MATSUSHITA ELEC INDUS CO	WS-300	BLK	675.00	7025
446405	420	DISPLAY UNIT	C1791EI	FB5521520	MATSUSHITA ELEC INDUS CO	WS-300	BLK	675.00	7025
931150	407	CAMERA	LCL-187	NONE	WATEC AMERICAN CORP	WS-400	000	675.00	6710
931151	407	CAMERA	LCL-187	NONE	WATEC AMERICAN CORP	WS-303	000	675.00	6710
838134	225	PROJECTOR OVERHEAD	1705	UNKNOWN	BELL & HOWELL CO AUDIO-VISUA	WS-201	107	678.00	6730
551932	831	DISPLAY UNIT	0C17DB02	9804100225	WAVENET	WS-803	000	682.00	7025
931010	406	DISPLAY UNIT	VE170B	AOA021200362	VIEWSONIC CORP/ DIV KEYPOINT	WS-463	105	684.00	7025
551365	219	DISPLAY UNIT	C703L	73TTC0131811	INFOTEL INC	WS-201	136	687.00	7025
235875	252	LASER DISK PLAYER	AG-LD30	DA2560477	PANASONIC	WS-200	110A	688.00	5836
931902	8	SCANNER	DR-2080C	CV316955	CANON INC	WS-400	BLKHO	689.00	7025
127225	207	RECEIVER-TRANSMITTER VHF FM	KY92	4283	KING RADIO CORP	WS-205	000	690.00	5820
931601	406	PRINTER, ADP	OFFICEJET 7140XI	MY3AKF11P2	HEWLETT PACKARD CO DIS	WS-462	000	690.00	7025
551239	240	DISPLAY UNIT	CPD17F23	7096485	GATEWAY COMPANIES INC	WS-201	139	693.00	7021
839567	237	MEASUREMENT SYSTEM	KD2300-6C	0-3013	KAMAN SCIENCES CORP	WS-201	137	695.00	6625
005430	837	CAMERA	TK880U	12614261	J V C NIVICO VICTOR CO LTD	WS-800	C830	695.00	5820
551077	250	CAMERA, CCTV	BDC2974	733800424	SANYO DENKI CO LTD	WS-200	203	695.00	5820
839598	243	CAMERA, VIDEO	TK880UL	8612819	J V C NIVICO VICTOR CO LTD	WS-700	CTRL	696.00	5820
839599	243	CAMERA	TK885	9511925	J V C NIVICO VICTOR CO LTD	WS-700	000	696.00	5820
839600	243	CAMERA	TK885	9511926	J V C NIVICO VICTOR CO LTD	WS-700	000	696.00	5820
296419	231	DISPLAY UNIT	TX1713MV	4130328998	VIEWSONICS INC	WS-200	MZ1	696.00	7025
838815	216	CAMERA BODY	RB67PRO-S	C555770	MAMIYA CAMERA CO LTD	WS-200	102	699.00	6720
005484	250	DISK DRIVE UNIT	90	UNKNOWN	IOMEGA	WS-200	100	699.00	7025
551030	221	DISPLAY UNIT	SR1703L	62TTC0093043	INFOTEL INC	WS-203	146	699.00	7025
551225	243	DISPLAY UNIT	E017	7762008628	PRINCETON GRAPHIC SYSTEMS	WS-201	000	699.00	7025
551324	231	DISPLAY UNIT	JC1745UMA	7102430RA	NEC CORP	WS-200	MZ2	699.00	7025

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
0324571	252	LENS ZOOM	10X12B	1088766	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0325233	252	LENS ZOOM	10X12B	1065060	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0325234	252	LENS ZOOM	10X12B	1088774	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0325235	252	LENS ZOOM, 12-120MM	10X12B	1073017	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0325236	252	LENS ZOOM	10X12B	1072952	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0772962	252	LENS, 12 TO 120 MM ZOOM	10X12B	1073027	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0772972	252	LENS ZOOM, 12-120MM	10X12B	1088860	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0772973	252	LENS ZOOM	10X12B	1093989	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0772974	252	LENS, 12 TO 120 MM ZOOM	10X12B	1065040	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0772975	252	LENS ZOOM 12 TO 120 MM	10X12B	1072999	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0772976	252	LENS ZOOM	10X12B	1088823	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0772977	252	LENS ZOOM	6760	1094006	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0772993	252	LENS,ZOOM	10X12B	1088767	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
0773046	252	LENS 12 TO 120 MM	10X12B	1073058	ANGENIEUX /ETS P/ SA	WS-200	100A	700.00	6760
1446148	261	MICROSCOPE	SPTITH	8810	FISHER SCIENTIFIC CO	WS-101	000	700.00	6650
1551068	217	DISPLAY UNIT	DX17F	963318	PRINCETON GRAPHIC SYSTEMS	WS-203	123	700.00	7025
1551699	115	MONITOR, VIDEO	PVM14M4U	2000848	SONY CORP	WS-113	SHOP	700.00	7025
1550587	420	DISPLAY UNIT	C1791EI	FA5621196	PANASONIC	WS-400	BLK	709.00	7025
0018777	227	LENS, CAMERA	PE-MF	8206	MACHIDA AMERICA INC	WS-200	163	710.00	6760
1550601	252	CAMERA, VIDEO	AD850	6114582	AMERICAN DYNAMICS	WS-200	203A	710.00	5820
1550604	250	DISPLAY UNIT	AM817E	S281G5100284	WYSE TECHNOLOGY	WS-200	100	710.00	7025
1931063	222	DISPLAY UNIT	1800FP	NONE	DELL COMPUTER CORP F-PC'S LTD	WS-201	119	711.00	7025
1931065	306	DISPLAY UNIT	1800FP	NONE	DELL COMPUTER CORP F-PC'S LTD	WS-362	000	711.00	7025
1931066	306	DISPLAY UNIT	1800FP	NONE	DELL COMPUTER CORP F-PC'S LTD	WS-362	000	711.00	7025
1931073	214	DISPLAY UNIT	1800FP	KR07R4773583026J027	DELL COMPUTER CORP F-PC'S LTD	WS-201	139	711.00	7025
1931076	214	DISPLAY UNIT	1800FP	KR07R4773583026J02B	DELL COMPUTER CORP F-PC'S LTD	WS-201	139	711.00	7025
1931098	231	DISPLAY UNIT	1800FP	KR07R4773583026Q00X	DELL COMPUTER CORP F-PC'S LTD	WS-200	MZ3	711.00	7025
1931119	204	DISPLAY UNIT	1800FP	KR07R4773583027A00L	DELL COMPUTER CORP F-PC'S LTD	WS-203	137	711.00	7025
1931227	225	DISPLAY UNIT	ULTRASHARP 1800FP	UNKNOWN	DELL COMPUTER CORP F-PC'S LTD	WS-201	112	711.00	7025
1931242	219	DISPLAY UNIT	1800FP	KR07R477358302700AK	DELL COMPUTER CORP F-PC'S LTD	WS-201	103A	711.00	7025
1931248	219	DISPLAY UNIT	1800FP	ZR477	DELL COMPUTER CORP F-PC'S LTD	WS-201	113	711.00	7025
1931254	306	DISPLAY UNIT	1800FP	KR07R4773583028709L	DELL COMPUTER CORP F-PC'S LTD	WS-300	000	711.00	7025
1931255	406	DISPLAY UNIT	1800FP	KR07R4773583028708D	DELL COMPUTER CORP F-PC'S LTD	WS-400	104	711.00	7025
1931256	222	DISPLAY UNIT	1800FP	KR07R4773583028709L	DELL COMPUTER CORP F-PC'S LTD	WS-201	119	711.00	7025
1550940	221	DISPLAY UNIT	PCXCV-VA	1K610A4998	DIGITAL COMPUTER SERVICES INC	WS-200	STORG	712.00	7025
0326851	407	LENS MOTORIZED 20-100MM 1"	TV5A	33243	PELCO SALES INC	WS-328	TWR	720.00	6760
0327036	407	LENS MOTORIZED 20-100MM 1"	TV5A	3322-3	PELCO SALES INC	WS-301	TWR	720.00	6760
1042754	223	REMOVAL FIXTURE, ARMATURE	T7520671	90140915	FAIRCHILD CTL SYS F-STRATOS DV	WS-201	136B	720.00	4960
0327039	407	LENS VIDEO AUTO IRIS	TVJ10AND	3128-4B	PELCO SALES INC	WS-403	000	721.00	6760
0327042	407	LENS VIDEO AUTO IRIS	TVJ10AND	3127-4B	PELCO SALES INC	WS-403	000	721.00	6760
3005642	407	MONITOR, COLOR	PVM-8221	5006352	SONY CORP	WS-300	107	722.00	7025
3005643	407	DISPLAY UNIT	PVM8221	5006434	SONY CORP	WS-300	107	722.00	7025
3026955	305	DISPLAY UNIT	JC1404HMA	01L52748U	NEC TECHNOLOGIES INC FRMLY NEC	WS-300	114A	722.00	7025
3099042	837	DISPLAY UNIT	JC1404HMA	98N03273K	NEC TECHNOLOGIES INC FRMLY NEC	WS-802	000	722.00	7025
1551118	202	DISPLAY UNIT	H767	629RT000J00321	COMPUTER SERVICE CORP	WS-201	120	729.00	7025
0323840	255	LENS CAMERA VIDEO	TV5AND	3009-3	PELCO SALES INC	WS-250	000	730.00	6760
0323841	407	LENS CAMERA VIDEO	TV5AND	3008-3	PELCO SALES INC	WS-300	101	730.00	6760
1551300	237	DISPLAY UNIT	C703L	7CTTC0005280	SHAMROCK TECHNOLOGY CO LTD	WS-802	000	730.00	7025
0327752	252	DISPLAY UNIT	PVM1271Q	2013971	SONY CORP OF AMERICA	WS-200	100A	732.00	7025
0326877	201	RECORDER VIDEO COLOR	VCR-5000	20003536	SANYO DENKI CO LTD	WS-200	100	733.00	5835
0324710	209	BRIDGE, MEGOHM	1644-A	673	GENRAD INC EMT ELECTRONIC TEST	WS-203	134	734.00	6625
0326969	237	BRIDGE, MEGOHM	1644-A	584	GENRAD INC EMT ELECTRONIC TEST	WS-800	208	734.00	6625
0323543	407	LENS ZOOM WIDE ANGLE	TVJ10MS	1006-4H	PELCO SALES INC	WS-405	000	735.00	6760

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio[illegible] Stock #	[illegible]ocument Control #
[illegible]23544	407	LENS ZOOM WIDE ANGLE	TVJ10MS	1039-4H	PELCO SALES INC	WS-302	000	735.00	6760
[illegible]26644	205	BRIDGE, HEGOHM	16449701	430	GENRAD INC EMT ELECTRONIC TEST	WS-203	151	735.00	6625
[illegible]50755	252	HOUSING CAMERA EXPLOSION PROOF	EHX6-16	NONE	PELCO SALES INC	WS-200	203A	736.00	6760
[illegible]30675	420	COMPUTER	815E	5E13JDVZF14G	COMPAQ COMPUTER CORP	WS-101	000	738.00	7021
[illegible]30676	420	COMPUTER	815E	5E13JDVZF14	COMPAQ COMPUTER CORP	WS-101	000	738.00	7021
[illegible]30806	420	COMPUTER	470018-163	6X19JDVZC0ET	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30807	420	COMPUTER	470018-163	6X19JDVZC095	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30808	420	COMPUTER	470018-163	6X19JDVZC0FF	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30809	420	COMPUTER	470018-163	6X19JDVZC0F2	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30810	420	COMPUTER	470018-163	6X19JDVZC0CE	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30811	420	COMPUTER	470018-163	6X19JDVZC096	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30812	420	COMPUTER	470018-163	6X19JDVZC0A3	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30813	420	COMPUTER	470018-163	6X19JDVZC099	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30814	420	COMPUTER	470018-163	6X19JDVZ6119	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30815	420	COMPUTER	470018-163	6X19JDVZ60WM	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30816	420	COMPUTER	470018-163	6X19JDVZ60XN	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30817	420	COMPUTER	470018-163	6X19JDVZ612J	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30818	420	COMPUTER	470018-163	6X19JDVZ615N	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30819	420	COMPUTER	470018-163	6X19JDVZ6101	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30820	420	COMPUTER	470018-163	6X19JDVZ612A	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30821	420	COMPUTER	470018-163	6X19JDVZ6103	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30822	420	COMPUTER	470018-163	6X19JDVZ60WX	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30823	420	COMPUTER	470018-163	6X19JDVZ60W0	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30824	420	COMPUTER	470018-163	6X19JDVZ60ZW	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]30825	420	COMPUTER	470018-163	6X19JDVZ615H	COMPAQ COMPUTER CORP	WS-101	UPSTA	738.00	7021
[illegible]602839	227	LENS, ZOOM	18-108MM	7-1248	NAVITAR INC	WS-200	CTF	740.00	6760
[illegible]839415	407	CAMERA, VIDEO, COLOR	WV-CL302	0ZB16917	PANASONIC	WS-405	000	741.00	5820
[illegible]839416	407	CAMERA, VIDEO, COLOR	WV-CL302	0ZB16977	PANASONIC	WS-400	BASE	741.00	5820
[illegible]839417	407	CAMERA, VIDEO	WV-CL302	0ZB16901	PANASONIC	WS-400	BASE	741.00	5820
[illegible]839418	407	CAMERA, VIDEO, COLOR	WV-CL302	0ZB16916	PANASONIC	WS-300	101	741.00	5820
[illegible]295446	407	CAMERA, VIDEO	WV-CL352	44B06053	MATSUSHITA ELEC INDUS CO	WS-362	000	745.00	5820
[illegible]295447	407	CAMERA, VIDEO	WV-CL352	3YB05916	MATSUSHITA ELEC INDUS CO	WS-362	000	745.00	5820
[illegible]328126	255	RECORDER VIDEO CASSETTE	AG2200	J6HE01800	PANASONIC	WS-252	000	750.00	5820
[illegible]328127	255	RECORDER VIDEO CASSETTE	AG2200	J6HE01453	PANASONIC	WS-252	000	750.00	5820
[illegible]551062	406	DISPLAY UNIT	1769DC	3263323933	VIEWSONIC CORP/ DIV KEYPOINT	WS-462	000	750.00	7025
[illegible]551277	221	DISPLAY UNIT	D2818A	KR64119343	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	750.00	7025
[illegible]930618	221	COMPUTER	DESKPRO EN SERIES	6017CDDZA198	COMPAQ COMPUTER CORP	WS-200	128	750.00	7021
[illegible]326872	252	RECORDER VIDEO CASSETTE	NV-8420	I4HB01158	MATSUSHITA ELEC INDUS CO	WS-200	100A	756.00	5835
[illegible]930904	219	DISPLAY UNIT	P220	41Q014600175	VIEWSONIC CORP/ DIV KEYPOINT	WS-201	120	756.00	7025
[illegible]551925	222	CAMERA, DIGITAL	MVCFD7	390230	SONY CORP	WS-201	119	760.00	6720
[illegible]931011	406	COMPUTER	OPTIPLEX GX150	FM65M11	DELL COMPUTER CORP F-PC'S LTD	WS-462	000	762.00	7021
[illegible]236441	221	CIRCULATOR, IMMERSION	1122	409052	POLYSCIENCE CORP	WS-200	142	764.00	6640
[illegible]324038	201	ANALYZER, DISTORTION	333A	B-24-00454	HEWLETT-PACKARD CO	WS-203	108	766.00	6625
[illegible]235900	115	GENERATOR	GA1400A	GAT40A0028535	KAWASAKI FUJI SEIKI CO	WS-113	SHOP	768.00	6115
[illegible]235759	240	DISPLAY UNIT	CM9217	17523092	MAGNAVOX ELECTRONIC SYSTEMS	WS-800	208	769.00	7025
[illegible]551264	242	PRINTER, ADP	C3980A	USBB316227	HEWLETT-PACKARD CO BOISE DIV	WS-201	136A	769.00	7025
[illegible]327866	201	TYPEWRITER ELECTRONIC	6015	02C-052200	XEROX CORP	WS-203	108	770.00	7430
[illegible]837872	407	LENS 10X ZOOM MOTORIZED	TVJ10MS	625-8H	PELCO SALES INC	WS-400	000	770.00	5820
[illegible]837873	407	LENS 10X ZOOM MOTORIZED	TVJ10MS	618-8H	PELCO SALES INC	WS-403	000	770.00	5820
[illegible]837874	407	LENS 10X ZOOM MOTORIZED	TVJ10MS	616-8G	PELCO SALES INC	WS-403	000	770.00	5820
[illegible]326828	405	SYNTHESIZER, FUNCTION GEN	171	C228089	WAVETEK ROCKLAND CP F-ROCKLAND	WS-400	101	771.00	6625
[illegible]551541	222	WRITER, OPTICAL DISK	CDR400TX	BE021624	YAMAHA	WS-201	113	772.00	7025
[illegible]325613	115	TYPEWRITER	CORRECT SELECT II	26-3831387	INTERNATIONAL BUSINESS MACHINE	WS-113	113F	774.00	7430

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
295534	227	MICROSCOPE	38334	NONE	EDMUND SCIENTIFIC CO	WS-200	CTF	775.00	6650
551537	231	PRINTER, ADP	C4213A	USCD002357	HEWLETT-PACKARD CO BOISE DIV	WS-200	MZ2	778.00	7025
570483	214	COUNTER, FREQUENCY	5211B	64801466	HEWLETT-PACKARD CO	WS-201	134	779.00	5895
551773	224	CAMERA	MACRO5	NONE	POLAROID CORP	WS-200	LABCN	779.00	6720
327529	252	LENS ZOOM MOTORIZED--11/110MM	TVJ10AC-1	0113-6E	PELCO SALES INC	WS-200	100A	780.00	6760
327530	407	LENS ZOOM MOTORIZED--11/110MM	TVJ10AC-1	0103-6E	PELCO SALES INC	WS-315	000	780.00	6760
323594	405	MULTIMETER DIGITAL	8840A	3643072	FLUKE CORP	WS-400	101	790.00	6625
327001	221	PRINTER, ADP	7270552-1	350046	BRINKMANN INSTRUMENTS CO	WS-203	107	790.00	7025
327002	221	PRINTER, ADP	7270552-1	3409088	BRINKMANN INSTRUMENTS CO	WS-203	107	790.00	7025
772775	405	MULTIMETER DIGITAL	8840A	3643017	FLUKE CORP	WS-400	BKR2	790.00	6625
838356	227	MICROSCOPE	A0580	196790	AMERICAN OPTICAL CO	WS-200	163	790.00	6650
930896	406	DISPLAY UNIT	MULTISYNC 1830	NONE	NEC ELECTRONICS USA INC	WS-462	000	790.00	7025
651202	242	DISPLAY UNIT	181T	GH18H4JTA04611A	NEC CORP	WS-800	CONTR	792.00	7025
931210	420	DISPLAY UNIT	VG181	A0V023510122	VIEW SONIC	WS-400	106	793.00	7025
931211	420	DISPLAY UNIT	VG181	A0V023510113	VIEW SONIC	WS-400	106	793.00	7025
931212	420	DISPLAY UNIT	VG181	A0V023510115	VIEW SONIC	WS-400	106	793.00	7025
931213	420	DISPLAY UNIT	VG181	A0V023510116	VIEW SONIC	WS-400	106	793.00	7025
931214	420	DISPLAY UNIT	VG181	A0V023510344	VIEW SONIC	WS-400	106	793.00	7025
931215	420	DISPLAY UNIT	VG181	A0V023510108	VIEW SONIC	WS-400	106	793.00	7025
931216	420	DISPLAY UNIT	VG181	A0V023510117	VIEW SONIC	WS-400	106	793.00	7025
931217	420	DISPLAY UNIT	VG181	A0V023510112	VIEW SONIC	WS-400	106	793.00	7025
931218	420	DISPLAY UNIT	VG181	A0V023510120	VIEW SONIC	WS-400	106	793.00	7025
931219	406	DISPLAY UNIT	VG181	A0V023510118	VIEW SONIC	WS-400	104	793.00	7025
931220	420	DISPLAY UNIT	VG181	A0V023510121	VIEW SONIC	WS-400	106	793.00	7025
931221	420	DISPLAY UNIT	VG181	A0V023510111	VIEW SONIC	WS-400	106	793.00	7025
931327	420	DISPLAY UNIT	VG181B	A0V025010056	VIEW SONIC	WS-101	000	793.00	7025
931328	420	DISPLAY UNIT	VG181B	A0V025010391	VIEW SONIC	WS-101	000	793.00	7025
0324541	207	CONTROL REMOTE	T1604TM	222CHW11228	MOTOROLA INC	WS-400	BLK	795.00	5820
0325284	216	LENS RB67 360MM F/6.3	NONE	40777	MAMIYA CAMERA CO LTD	WS-200	102	800.00	6760
0328124	252	CAMERA, VIDEO	LTI-22A	280519	NEC ELECTRONICS USA INC	WS-200	100A	800.00	5820
0328125	252	CAMERA, VIDEO	LTI-22A	280575	NEC ELECTRONICS USA INC	WS-200	800A	800.00	5820
0839946	837	CAMERA	TK885U	19511920	J V C NIVICO VICTOR CO LTD	WS-800	C111	800.00	5820
0839947	837	CAMERA	TK885U	9612318	J V C NIVICO VICTOR CO LTD	WS-800	C111	800.00	5820
1005487	407	CAMERA, VIDEO	WV-CL352	15A02107	PANASONIC	WS-301	TWR	800.00	5820
1005488	407	CAMERA, VIDEO	WV-CL352	15A02105	PANASONIC	WS-328	000	800.00	5820
1005489	407	CAMERA, VIDEO	WV-CL352	15A02150	PANASONIC	WS-301	000	800.00	5820
1005490	407	CAMERA, VIDEO	WV-CL352	15A02117	PANASONIC	WS-400	000	800.00	5820
1005491	407	CAMERA, VIDEO	WV-CL352	19B21012	PANASONIC	WS-401	000	800.00	5820
1551161	407	LENS	H16Z7516AMS	NONE	COMPUTAR	WS-400	101	800.00	6760
1551163	407	LENS	H16Z7516AMS	NONE	COMPUTAR	WS-400	000	800.00	6760
1654769	214	CAMERA, DIGITAL	CYBER-SHOT 3.3	155080	SONY CORP	WS-203	000	800.00	6720
1654793	210	CAMERA, DIGITAL	MVC-FD90	111725	SONY CORP	WS-203	145	800.00	6720
1654817	216	CAMERA, DIGITAL	C-2500L	2070001	OLYMPUS OPTICAL CO LTD	WS-200	102	800.00	6720
1931617	252	DISPLAY UNIT	2000FP	99L3772DRU	DELL COMPUTER CORP F-PC'S LTD	WS-270	000	800.00	7025
0325272	252	LENS ZOOM 12-120MM	10X12B	1142826	ANGENIEUX /ETS P/ SA	WS-200	100A	806.00	6760
1236051	407	CAMERA, VIDEO	WV-CL352	36B04531	PANASONIC	WS-401	000	810.00	5820
1235689	837	CAMERA, VIDEO	TK980U	16751407	JVC CO OF AMERICA	WS-800	HFTA	811.00	5820
1235362	406	TYPEWRITER	30	11VH412	INTERNATIONAL BUSINESS MACHINE	WS-463	105	812.00	7430
0838569	252	CAMERA	WV1550	92J01557	PANASONIC	WS-200	100A	815.00	5820
0324583	407	LENS PINHOLE	F9-3PS	NONE	LENZAR OPTICS CORP	WS-405	000	820.00	6760
0326347	237	CALIBRATOR, DIGITAL	477A	47739	EMERSON ELECTRIC CO DORIC	WS-800	208	820.00	6625
0326883	407	LENS PINHOLE	F9-3PS	NONE	LENZAR OPTICS CORP	WS-400	BASE	820.00	6760
0326884	407	LENS PINHOLE	F9-3PS	NONE	LENZAR OPTICS CORP	WS-405	000	820.00	6760

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio[illegible] Stock #	[illegible]ocument Control #
839230	242	CAMERA, VIDEO	TK880UL	8511943	J V C NIVICO VICTOR CO LTD	WS-272	000	821.00	5820
839231	242	CAMERA, VIDEO	TK880UL	8511944	J V C NIVICO VICTOR CO LTD	WS-272	000	821.00	5820
839232	242	CAMERA, VIDEO	TK880UL	8511880	J V C NIVICO VICTOR CO LTD	WS-272	000	821.00	5820
839233	242	CAMERA, VIDEO	TK880UL	8511945	J V C NIVICO VICTOR CO LTD	WS-272	000	821.00	5820
931041	406	DISPLAY UNIT	LCD1850E	206238740	NEC CORP	WS-462	000	824.00	7025
931042	306	DISPLAY UNIT	LCD1850E	2062387	NEC CORP	WS-362	000	824.00	7025
931623	231	CAMERA, CCD	GP-KR222	41B00681	PANASONIC	WS-200	NHB	825.00	6710
839308	406	RECORDER MONITOR, VIDEO	AG560	G0MD00202	PANASONIC	WS-462	000	827.00	5836
839309	406	RECORDER MONITOR, VIDEO	AG560	G0MD00203	PANASONIC	WS-463	103	827.00	5836
235720	207	TRANSCEIVER, RF LINK	K33LCF1102BP	117CTE0328	MOTOROLA INC	WS-203	000	828.00	5820
326568	407	DISPLAY UNIT	VMJ2022T	340416005	RCA CORP GVMT & COMMERCIAL SYS	WS-400	105	829.00	5820
839953	221	PLOTTER, GRAPHICS	7440A	2929A36639	HEWLETT-PACKARD CO	WS-200	STORG	830.00	7025
235585	239	DISK DRIVE UNIT	RRD42DA	817156	DIGITAL EQUIPMENT CORP	WS-201	139C	831.00	7025
326562	407	RECEIVING SET, TELEVISION	VJM2022	407216133	RCA CORP GVMT & COMMERCIAL SYS	WS-400	104	832.00	7730
326565	407	RECEIVING SET, TELEVISION	VJM2022	407216098	RCA CORP GVMT & COMMERCIAL SYS	WS-400	106	832.00	7730
236102	255	DISPLAY UNIT	CM9217	16944385	MAGNAVOX ELECTRONIC SYSTEMS	WS-201	137	832.00	7025
651260	252	LENS, CAMERA	50MM	386477	NIKON CORP	WS-270	000	835.00	6760
651261	252	LENS, CAMERA	50MM	387715	NIKON CORP	WS-270	000	835.00	6760
931027	420	DISPLAY UNIT	LCD1850E	205227727	NEC CORP	WS-400	105	838.00	7025
931028	420	DISPLAY UNIT	LCD1850E	206231563	NEC CORP	WS-100	105	838.00	7025
931392	250	RECORDER, DVD	DMR-T3040P	KW3EA001186	PANASONIC	WS-200	100	839.00	5836
654821	252	LENS, CAMERA	A-645	4149462	PENTAX CORP	WS-200	110A	840.00	6760
323839	407	LENS CAMERA MOTORIZED	TV5F/1	1008-2	PELCO SALES INC	WS-400	BASE	848.00	5820
018709	201	BRIDGE, SWR	60NF50-1	773017	WILTRON CO	WS-203	108	850.00	6625
326909	217	HOIST CRANE ELECTRIC 1/2-TON	1/2 F1	3L9267113-1	MAMIYA CAMERA CO LTD	WS-203	122	850.00	3950
327782	252	RECORDER/PLAYER/MONITOR VIDEO	L950	4729	LLOYDS ELECTRONICS CORP	WS-200	100A	850.00	5820
236064	407	CAMERA, VIDEO	WV-CL352	37B09605	PANASONIC	WS-401	000	854.00	5820
236065	407	CAMERA, VIDEO	WV-CL352	37B09629	PANASONIC	WS-328	000	854.00	5820
236066	407	CAMERA, VIDEO	WV-CL352	37B09637	PANASONIC	WS-405	000	854.00	5820
236067	407	CAMERA, VIDEO	WV-CL352	37B09644	PANASONIC	WS-401	000	854.00	5820
236068	407	CAMERA, VIDEO	WV-CL352	35B05476	PANASONIC	WS-405	000	854.00	5820
236069	407	CAMERA, VIDEO	WV-CL352	35B05477	PANASONIC	WS-400	BSMT	854.00	5820
930613	420	DISPLAY UNIT	PF815	Q003641401	VIEWSONIC CORP/ DIV KEYPOINT	WS-101	210	856.00	7025
930614	420	DISPLAY UNIT	PF815	Q003641395	VIEWSONIC CORP/ DIV KEYPOINT	WS-101	210	856.00	7025
930615	420	DISPLAY UNIT	PF815	Q003641357	VIEWSONIC CORP/ DIV KEYPOINT	WS-101	210	856.00	7025
235512	207	RADIO, PORTABLE, HAND HELD	H43GCJ7190CN	751ASW1446	MOTOROLA INC	WS-362	000	860.00	5820
236216	230	DISPLAY UNIT	VRC16HA	2A31512500	DIGITAL EQUIPMENT CORP	WS-201	139	863.00	7025
931374	239	DISPLAY UNIT	7380I	7380ICC03151	TELEVIDEO SYSTEMS INC	WS-201	000	865.00	7025
931375	239	DISPLAY UNIT	7380I	7380ICC03150	TELEVIDEO SYSTEMS INC	WS-201	000	865.00	7025
327352	201	RECEIVER/COMPARATOR VLF	207-3	502	FLUKE CORP	WS-203	108	867.00	5820
930912	406	COMPUTER	OPTIPLEX GX150	HZ0JB11	DELL COMPUTER CORP F-PC'S LTD	WS-462	000	871.00	7021
807745	216	LENS	80-160MM	4053051	PENTAX CORP	WS-200	102	872.00	6760
328532	407	CAMERA, VIDEO, COLOR	WV-D5000	71A05116	PANASONIC	WS-400	BASE	874.00	5820
328535	407	CAMERA, VIDEO, COLOR	WV-D5000	6YA01746	PANASONIC	WS-300	101	874.00	5820
235879	231	DISPLAY UNIT	CM1785MU	Y3B004361	HITACHI MFG CO	WS-200	MZ1	875.00	7025
930431	420	MONITOR	PF815	QW00601491	VIEW SONIC	WS-300	105	875.00	7025
930432	420	MONITOR	PF815	QW00601477	VIEW SONIC	WS-300	105	875.00	7025
930433	420	MONITOR	PF815	QW00601490	VIEW SONIC	WS-400	105	875.00	7025
930434	420	MONITOR	PF815	QW00601478	VIEW SONIC	WS-300	105	875.00	7025
930435	420	MONITOR	PF815	QW00601492	VIEW SONIC	WS-400	105	875.00	7025
930436	420	MONITOR	PF815	QW00601489	VIEW SONIC	WS-300	105	875.00	7025
005735	225	TYPEWRITER	30	11TZ172	INTERNATIONAL BUSINESS MACHINE	WS-201	112	878.00	7430
773053	216	LENS 90 MM F/5.6	SUPER-ANGULON	14062736	SCHNEIDER JOS UND CO	WS-200	102	880.00	6760

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Nation Stock #	Document Control #
236028	407	LENS ZOOM MOTORIZED	TVH10M1	2253-3H	PELCO SALES INC	WS-401	000	886.00	5820
236029	407	LENS ZOOM MOTORIZED	TVH10M1	2250-3H	PELCO SALES INC	WS-400	BASE	886.00	5820
931201	201	MULTIMETER	34401A	SG41018113	AGILE CORP	WS-203	108	889.00	6625
931202	201	MULTIMETER	34401A	SG41018603	AGILE CORP	WS-203	108	889.00	6625
931203	201	MULTIMETER	34401A	SG41018119	AGILE CORP	WS-203	108	889.00	6625
931204	201	MULTIMETER	34401A	SG41018615	AGILE CORP	WS-203	108	889.00	6625
323824	225	RECEIVING SET, TELEVISION	CT5379R	PQ4641372	PANASONIC	WS-201	117	890.00	7730
551890	115	DISPLAY UNIT	JC1746UMA	8302154AL	NEC CORP	WS-113	SHOP	891.00	7025
338677	831	CAMERA HEAD	WV5010	99A00690	PANASONIC	WS-800	101	896.00	5820
338678	831	CAMERA HEAD	WV5010	99A00684	PANASONIC	WS-800	101	896.00	5820
550867	250	RECORDER, VHS	SRS360U	7113504	JVC	WS-200	203	898.00	5836
326561	407	RECEIVING SET, TELEVISION	VJM2022	340416091	RCA CORP GVMT & COMMERCIAL SYS	WS-400	106	899.00	7730
326566	407	RECEIVING SET, TELEVISION	VJM2022	340316095	RCA CORP GVMT & COMMERCIAL SYS	WS-400	106	899.00	7730
328600	225	PROJECTOR OVERHEAD	2100AJCT	416349	MINN MINING & MFG CO VISUAL	WS-201	107	899.00	6730
446147	221	DISK DRIVE UNIT	TAHOE230MB	100214368	PINNACLE MICRO INC	WS-203	146	899.00	7025
930741	305	DISPLAY UNIT	DIAMOND PRO 2060	102103531	MITSUBISHI ELECTRONICS AMERICA	WS-300	BLKHO	899.00	7025
930765	420	DISPLAY UNIT	DIAMOND PRO 2060	106106545	MITSUBISHI ELECTRONICS AMERICA	WS-400	107	899.00	7025
329944	207	CONTROLLER DESKTOP	T1926	448CNS0252	MOTOROLA INC	WS-205	000	900.00	5820
602882	305	CAMERA, DIGITAL	950	315460	NIKON CORP	WS-362	000	900.00	6720
602883	407	CAMERA, DIGITAL	950	315458	NIKON CORP	WS-363	000	900.00	6720
839713	831	CAMERA, VIDEO, COLOR	AG180	C1HB01143	PANASONIC	WS-803	104	901.00	5820
327275	250	DISPLAY UNIT	CM2591A	25902243	NEC TECHNOLOGIES INC FRMLY NEC	WS-200	100	910.00	7025
328526	252	CAMERA, VIDEO, COLOR	WV-F2	61B04235	PANASONIC	WS-200	100A	910.00	5820
930642	420	DISPLAY UNIT	P220F	40V004600292	VIEW SONIC	WS-101	212	911.00	7025
182292	211	PHOTOMETER DIGITAL	J17	B010250	TEKTRONIX INC	WS-203	108	912.00	6650
324013	252	CAMERA, VIDEO, COLOR	PK975	G4WA10284	PANASONIC	WS-200	100A	925.00	5820
326453	252	RECORDER VIDEO CASSETTE	NV8410	C1HA22840	PANASONIC	WS-200	100A	925.00	5820
326454	252	RECEIVER VIDEO	NV8410	G09HA10066	PANASONIC	WS-200	100A	925.00	5280
551173	407	RECORDER, VIDEO CASSETTE	SRS360U	15113782	JVC	WS-400	105	927.00	5836
551174	407	RECORDER, VIDEO CASSETTE	SRS360U	15113794	JVC	WS-400	105	927.00	5836
551176	407	RECORDER, VIDEO CASSETTE	SRS360U	15113801	JVC	WS-300	CONF	927.00	5836
551346	407	RECORDER, VIDEO CASSETTE	SRS360U	15113770	JVC	WS-400	106	927.00	5836
328661	837	CAMERA, VIDEO	WV-F2	63B02014	PANASONIC	WS-802	000	930.00	5820
838147	202	PRINTER, ADP	3630A	2728A44239	HEWLETT-PACKARD CO	WS-203	136B	930.00	7025
329666	201	PRINTER, ADP	3630A	2728A26179	HEWLETT-PACKARD CO	WS-203	108	935.00	7025
839126	201	MULTIMETER, DIGITAL	3478A	2911A59957	HEWLETT-PACKARD CO	WS-203	108	935.00	6625
005760	227	RECORDER VIDEO CASSETTE	BRS600U	16612982	J V C NIVICO VICTOR CO LTD	WS-200	163	936.00	5836
005870	207	RADIO, PORTABLE, HAND HELD	H43GCJ7190CN	751ASN0962	MOTOROLA INC	WS-252	000	938.00	5820
005872	207	RADIO, PORTABLE, HAND HELD	H43GCJ7190CN	751ASN964	MOTOROLA INC	WS-252	000	938.00	5820
551045	215	PRINTER, ADP	C3155A	USHB035059	HEWLETT-PACKARD CO BOISE DIV	WS-203	134	947.00	7025
551046	215	PRINTER, ADP	C3155A	USHB035081	HEWLETT-PACKARD CO BOISE DIV	WS-203	145	947.00	7025
295532	237	DISPLAY UNIT	JC1531VMA3	4700787HA	NEC CORP	WS-800	HFTA	949.00	7025
324478	201	BRIDGE, INDUCTANCE	1632A	677	GENRAD INC EMT ELECTRONIC TEST	WS-203	108	950.00	6625
838771	252	CAMERA HYCAM	400	418	REDLAKE IMAGING CORP	WS-200	100A	950.00	6710
839365	217	CAMERA, VIDEO, COLOR	SSC-S20	100500	SONY CORP OF AMERICA	WS-203	123	950.00	5820
839602	243	LENS	TVJ10M	1239-1C	PELCO SALES INC	WS-700	CTRL	950.00	6760
1930940	243	COMPUTER	OPTIPLEX GX150	BL6RD11	DELL COMPUTER CORP F-PC'S LTD	WS-201	105	952.00	7021
0329996	252	RECEIVER/MONITOR COLOR 5"	JVC-TM2U/RM8A	9880043	PANASONIC	WS-200	100A	957.00	5820
1930264	834	DISPLAY UNIT	P815	QM91719669	VIEW SONIC	WS-201	105	959.00	7025
0839582	207	POWER ANALYST	4391	2367	BIRD ELECTRONIC CORP	WS-200	161	960.00	6625
1005672	214	MULTIMETER	34401A	3146A03668	HEWLETT-PACKARD CO	WS-203	111	960.00	6625
1930215	228	VACUM CLEANER	GM80	GMPJ115	NILFISK OF AMERICA INC	WS-200	LABCO	961.00	7910
0838709	207	RADIO PORTABLE HAND-HELD	H43GCJ7190CN	751APU1769	MOTOROLA INC	WS-252	000	962.00	5820

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
0838711	207	RADIO PORTABLE HAND-HELD	H43GCJ7190CN	751APU1771	MOTOROLA INC	WS-252	000	962.00	5820
0838716	207	RADIO PORTABLE HAND-HELD	H43GCJ7190CN	751APU1776	MOTOROLA INC	WS-252	000	962.00	5820
0252209	304	MULTIMETER, DIGITAL	8600A	4025045	FLUKE CORP	WS-300	107	965.00	6625
0324614	201	GENERATOR FUNCTION	50621	G238484	WAVETEK ROCKLAND CP F-ROCKLAND	WS-203	108	966.00	6625
1235391	217	PRINTER, ADP	33481A	3128JG3PC5	HEWLETT-PACKARD CO	WS-203	116	969.00	7025
0781771	252	LENS ZOOM 12-120MM	10X12B	1074010	ANGENIEUX /ETS P/ SA	WS-200	100A	970.00	6760
1654739	407	CAMERA, LENS	WV-GL834	05B02666	MATSUSHITA ELEC INDUS CO	WS-363	000	970.00	6710
1654740	407	CAMERA, LENS	WV-GL834	05B02689	MATSUSHITA ELEC INDUS CO	WS-363	000	970.00	6710
1654741	407	CAMERA, LENS	WV-GL834	05B02717	MATSUSHITA ELEC INDUS CO	WS-363	000	970.00	6710
1930578	407	CAMERA	CL834	05B02705	PANASONIC	WS-363	000	970.00	6710
0326567	407	RECEIVING SET, TELEVISION	VJM2022	326316042	RCA CORP GVMT & COMMERCIAL SYS	WS-400	105	975.00	7730
1654805	406	CAMERA, DIGITAL	COOLPIX 990	3078549	NIKON CORP	WS-462	000	975.00	6720
1235743	407	CAMERA, VIDEO	WV-CL352	2ZB06494	PANASONIC	WS-400	000	976.00	5820
0326880	201	CAMERA, VIDEO, COLOR	PK-975	J4WA10308	PANASONIC	WS-203	108	980.00	6710
1930971	239	DISPLAY UNIT	TELECLIENT	TC7370060100037	TELEVIDEO SYSTEMS INC	WS-201	000	985.00	7025
1005696	252	VIDEO SYSTEM	VP316230	1005696	NEC ELECTRONICS USA INC	WS-200	100A	989.00	5836
1930989	231	COMPUTER	GX150	J895J11	DELL COMPUTER CORP F-PC'S LTD	WS-200	MZ2	989.00	7021
0326876	252	CAMERA, VIDEO, COLOR	TC5001	B3WA10070	RCA CORP GVMT & COMMERCIAL SYS	WS-200	110A	990.00	5820
0838293	304	VOLTMETER DIGITAL	8840A	4737065	FLUKE CORP	WS-300	BASMT	990.00	6625
1551459	250	DISK DRIVE, CD-ROM TOWER	CR506	NONE	MICROSYS AUTOMATION INC	WS-200	203	991.00	7025
1235361	214	MULTIMETER	34401A	314609091	HEWLETT-PACKARD CO	WS-203	111	995.00	6625
1235529	305	FUNCTION GENERATOR	DS335/1	23108	STANFORD RESEARCH SYSTEMS INC	WS-300	BSMT	995.00	6625
1236485	209	MULTIMETER	34401A	3146A34924	HEWLETT-PACKARD CO	WS-203	137	995.00	6625
1295592	227	MULTIMETER	34401A	3146A42275	HEWLETT-PACKARD CO BOISE DIV	WS-200	152	995.00	6625
1551196	204	MICROSCOPE	NONE	56128	MEIJE TECHNOLOGY INC	WS-203	144	995.00	6650
1551368	227	DISPLAY UNIT	PVM1350	2012357	SONY CORP	WS-200	136B	995.00	7025
1551813	224	MULTIMETER, DIGITAL	34401A	US36038373	HEWLETT-PACKARD CO BOISE DIV	WS-200	LABCO	995.00	6625
1602857	210	INSTRUMENT DATA LOGGER	PTE-1	4928	HEISE SEE DRESSER INDUSTRIES	WS-203	134	995.00	4928
1930951	201	MULTIMETER	34401A	MY41015742	AGILENT TECHNOLOGIES INC	WS-203	108	995.00	6625
1931245	115	MICROMETER	599-281-50	NONE	BROWN AND SHARPE MFG CO	WS-113	SHOP	995.00	5210
0329664	201	PLOTTER, GRAPHICS	7440A	2539A66219	HEWLETT-PACKARD CO	WS-203	108	997.00	7025
0772864	237	VOLTMETER DIGITAL	3478A	2301A14875	HEWLETT-PACKARD CO	WS-201	137	998.00	6625
0838037	250	RECORDER VIDEO CASSETTE	BV785	17SA30061	CURTIS MATHES	WS-200	100A	999.00	5820
1295551	231	DISPLAY UNIT	JC1731VMA3	4706170DA	NEC CORP	WS-802	104	999.00	7025
1930249	170	MICROSCOPE	22005A11	NONE	TITAN TOOL CO	WS-113	000	999.00	6650
1930357	831	PRINTER, ADP	C4172A	USRG021109	HEWLETT PACKARD CO DIS	WS-803	108	999.00	7025
0327232	252	MONITOR 12" B/W	TR124MA	FGSS40274	PANASONIC	WS-200	102A	1,000.00	7025
0328846	305	POWER SUPPLY	TVR 040-30-20	64-737	CAL-POWER CP F-PERKINS ELECTR	WS-300	BKR1	1,000.00	6130
0329005	217	COMPUTER	3515660-63	TA-26768	AMPEX CORP MEMORY PROD DIV	WS-203	120	1,000.00	7021
1005469	239	DISPLAY UNIT	GDM1662B	9129DY2982	SUN MICROSYSTEMS INC	WS-203	111	1,000.00	7025
1235486	217	DISPLAY UNIT	TMR14U	17653960	J V C NIVICO VICTOR CO LTD	WS-203	116	1,000.00	7025
1235487	217	DISPLAY UNIT	A1497A	3145J14905	HEWLETT-PACKARD CO	WS-203	116	1,000.00	7025
1236300	222	PLOTTER,GRAPHICS	7440A	2929L06147	HEWLETT-PACKARD CO	WS-800	000	1,000.00	7025
1550525	227	COMPUTER	486DX4-100	60007857	INFOTEL INC	WS-200	163	1,000.00	7021
1551534	216	CAMERA, DIGITAL	DCS420	420-7583	NIKON CORP	WS-200	102	1,000.00	6720
1551863	222	COMPUTER	PENTIUM MMX	2612575	MIDWEST MICRO	WS-802	000	1,000.00	7021
1930007	407	DISPLAY UNIT	7GLR	BGG082405865	AOC INTERNATIONAL	WS-440	000	1,000.00	7025
0018949	216	LENS	50/4.5	51054	MAMIYA CAMERA CO LTD	WS-200	102	1,004.00	6760
0839993	209	MULTIMETER DIGITAL	8840A	5196010	FLUKE CORP	WS-203	108	1,005.00	6625
0324048	201	GENERATOR FUNCTION	162	297680	WAVETEK SAN DIEGO INC	WS-203	108	1,014.00	6625
0839615	407	LENS 10X ZOOM MOTORIZER	TVH10MS	7650H	PELCO SALES INC	WS-400	BASE	1,015.00	6760
0839616	407	LENS 10X ZOOM MOTORIZED	TVJ10MS	7610G	PELCO SALES INC	WS-328	000	1,015.00	6760
0839617	407	LENS 10X ZOOM MOTORIZED	TVJ10MS	7761B	PELCO SALES INC	WS-401	000	1,015.00	6760

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
839618	407	LENS 10X ZOOM MOTORIZED	TVJ10MS	7660H	PELCO SALES INC	WS-301	000	1,015.00	6760
839936	252	CAMERA	WV-D5100	15A00420	PANASONIC	WS-200	100A	1,019.00	5820
838947	220	RECORDER VIDEO CASSETTE	AG1960	A0HG01046	PANASONIC	WS-255	000	1,021.00	5836
175181	304	POWER SUPPLY	HR60-8C0V	80015-4	SYSTRON-DONNER MICROWAVE DIV	WS-300	115	1,024.00	6130
175182	304	POWER SUPPLY	HR60-8C0V	80030-4	SYSTRON-DONNER MICROWAVE DIV	WS-300	115	1,024.00	6130
175184	304	POWER SUPPLY	HR60-8COV	80022-4	SYSTRON-DONNER MICROWAVE DIV	WS-300	115	1,024.00	6130
175187	227	POWER SUPPLY	HR60-8COV	80029-4	SYSTRON-DONNER MICROWAVE DIV	WS-200	CTF	1,024.00	6130
654810	209	DATALOGGER	PTE-1	7161	DRESSER IND DRESSER INSTR DIV	WS-203	134	1,024.00	7025
324035	201	PLUG-IN TIME BASE	7B85	B085201	TEKTRONIX INC	WS-203	108	1,025.00	6625
326856	201	LOGIC LAB	5035T	1540A02709	HEWLETT-PACKARD CO	WS-203	108	1,025.00	6625
772865	201	PLUG-IN, OSCILLOSCOPE	7B85	B083819	TEKTRONIX INC	WS-203	108	1,025.00	6625
295538	237	DISPLAY UNIT	JC1731VMA3	4800541DA	NEC CORP	WS-800	HFTA	1,025.00	7025
550968	106	PRINTER, ADP	C3155A	USHB003081	HEWLETT-PACKARD CO BOISE DIV	WS-100	DRAFT	1,025.00	7025
839917	216	CAMERA	645	1043472	PENTAX CORP	WS-200	102	1,036.00	6720
550593	250	DISK DRIVE UNIT	230	NONE	IOMEGA	WS-200	100	1,042.00	7025
551747	115	DISPLAY UNIT	E21	FA7420135	MATSUSHITA ELECTRIC	WS-113	SHOP	1,042.00	7025
325269	216	CAMERA 4X5	45RF	20635R	WISTA CO LTD	WS-200	102	1,046.00	6720
328212	239	BOX, POWER SUPPLY/CONTROLLER	VS240B	AB51400QA3	DIGITAL EQUIPMENT CORP	WS-201	139	1,046.00	7025
236257	227	MULTIMETER	34401A	3146A30843	HEWLETT-PACKARD CO	WS-200	163	1,046.00	6625
1931362	252	PRINTER, ADP	53500	2030301545	KODAK CANADA LTD	WS-200	102A	1,048.00	7025
0839985	217	RECORDER VIDEO CASSETTE	AG1960	I1TA00772	PANASONIC	WS-203	117	1,049.00	5836
0839357	405	MULTIMETER	8840/09	5151028	FLUKE CORP	WS-400	101	1,050.00	6625
0839358	405	MULTIMETER	8840/09	5151029	FLUKE CORP	WS-400	BKR2	1,050.00	6625
1551372	227	GAUGE, PRESSURE	500PSIG	CC124593	DRESSER IND/HEISE PLANT F-IND-	WS-200	CTF	1,050.00	6685
1551373	227	GAUGE, PRESSURE	1000PSIG	CC124594	DRESSER IND/HEISE PLANT F-IND-	WS-200	CTF	1,050.00	6685
1551374	227	GAUGE, PRESSURE	50PSIG	CC124591	DRESSER IND/HEISE PLANT F-IND-	WS-200	CTF	1,050.00	6685
1551375	227	GAUGE, PRESSURE	500PSIG	CC124592	DRESSER IND/HEISE PLANT F-IND-	WS-200	CTF	1,050.00	6685
0703678	211	GENERATOR CALIBRATION PLUG-IN	PG506	B010457	TEKTRONIX INC	WS-203	108	1,051.00	6625
1931124	250	CAMERA, DOME	WV-CS564	BFA01403	PANASONIC	WS-250	POLE	1,055.00	6710
1931125	250	CAMERA, DOME	WV-CS564	BFA01390	PANASONIC	WS-800	841	1,055.00	6710
1931178	250	CAMERA, DOME	WV-CS564	BFA01345	PANASONIC	WS-800	110	1,055.00	6710
1005777	304	MULTIMETER	8840A	5510022	FLUKE CORP	WS-300	BKR1	1,060.00	6625
0324044	201	NANO-VOLT SOURCE	MV-100J	6778	ELECTRONIC DEVELOPMENT CORP	WS-203	108	1,062.00	6625
0699801	305	TESTER, BOARD	Z1C611	1	ZERO CORP ZERO WEST DIV	WS-300	114A	1,069.00	6625
1931304	242	SERVER	NUPRO 615	11066	CIRCUIT SPECIALISTS INC	WS-201	105	1,069.00	7021
1651218	216	LENS, CAMERA	NIKKOR 135MM	US306470	NIKON CORP	WS-200	204	1,070.00	6760
1930438	406	PRINTER, ADP	2100TN	USGR050249	VIEW SONIC	WS-400	BLKHO	1,074.00	7025
0839383	227	MICROSCOPE	EMZ-TR	27638	MEIJE TECHNOLOGY INC	WS-200	152	1,088.00	6650
1931722	219	SCANNER, FILM	COOLSCAN 5000	213067	NIKON CORP	WS-201	000	1,099.00	6740
0327035	407	LENS ZOOM MOTORIZED	TVJ10A	3127-3J	PELCO SALES INC	WS-301	PAD	1,100.00	5820
0327043	407	LENS ZOOM MOTORIZED	TVJ10A	3139-4B	PELCO SALES INC	WS-301	000	1,100.00	5820
0327582	405	FIXTURE TEST LINEAR IC	178	B020444	TEKTRONIX INC	WS-400	BKR2	1,100.00	6625
1550544	227	COMPUTER	PENTIUM MIDTOWER	60014593	INFOTEL INC	WS-200	163	1,100.00	7021
1550616	215	COMPUTER	NONE	D13/96A0021	DEE-ONE SYSTEMS	WS-203	137	1,100.00	7021
1551109	420	COMPUTER	MINITOWER	1154	TOME COMPUTER SERVICE	WS-101	212	1,100.00	7021
1551114	231	COMPUTER	MINITOWER	1161	TOME COMPUTER SERVICE	WS-200	MZ2	1,100.00	7021
1552033	222	COMPUTER	P-266	2655334	MIDWEST MICRO	WS-201	103A	1,100.00	7021
1552118	407	CAMERA CONTROLLER UNIT	VPS1300	20709	VICON INDUSTRIES INC	WS-363	000	1,100.00	6760
1931493	834	CAMERA, DOME	WV-CS564	CFA00550	PANASONIC	WS-252	000	1,102.00	6710
1931002	222	COMPUTER	UNKNOWN	1007149	COMPUTER MASTERS	WS-201	119	1,103.00	7021
1551776	420	DISPLAY UNIT	931G	73701T260102041	ADI CORP	WS-101	212	1,104.00	7025
1930886	220	COMPUTER	GX240	D4MB611	DELL COMPUTER CORP F-PC'S LTD	WS-201	129	1,104.00	7021
1930457	306	DISPLAY UNIT	2040U NF	S004006276	MITSUBISHI ELECTRIC CORP	WS-363	000	1,112.00	7025

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
930728	227	COMPUTER, DATA AQUISITION	NUPRO 615	NONE	CIRCUIT SPECIALISTS INC	WS-201	000	1,112.00	7021
930804	834	COMPUTER	NUPRO615	NONE	CIRCUIT SPECIALISTS INC	WS-201	000	1,112.00	7021
930805	834	COMPUTER	NUPRO615	NONE	CIRCUIT SPECIALISTS INC	WS-201	000	1,112.00	7021
324039	201	GENERATOR,PULSE	PG502	B020519	TEKTRONIX INC	WS-203	108	1,116.00	6625
550908	227	POWER SUPPLY	PS2520	TW50198	TEKTRONIX INC	WS-200	CTF	1,123.00	6130
930192	227	POWER SUPPLY	PS2520	TW50173	TEXTRONIX INC	WS-200	163	1,123.00	6130
930371	219	COMPUTER	OPTI PLEXGS1	GA70F	DELL COMPUTER CORP F-PC'S LTD	WS-201	120	1,124.00	7021
931318	407	DVD PLAYER	DMR-HS2	KW2IA005471	PANASONIC	WS-400	105	1,125.00	5836
931319	407	DVD PLAYER	DMR-HS2	KW2JA001144	PANASONIC	WS-462	000	1,125.00	5836
327753	252	CAMERA, CCD, B/W	NONE	51431	SONY CORP OF AMERICA	WS-200	100A	1,136.00	6760
839991	221	PLOTTER, GRAPHICS	7475A	14343	HEWLETT-PACKARD CO	WS-200	128	1,140.00	7025
329433	209	MULTIMETER DIGITAL	8842A/05	4427267	FLUKE CORP	WS-203	134	1,145.00	6625
329435	209	MULTIMETER DIGITAL	8842A/05	4417252	FLUKE CORP	WS-203	133	1,145.00	6625
329436	209	MULTIMETER DIGITAL	8842A/05	4417251	FLUKE CORP	WS-203	137	1,145.00	6625
.931466	222	COMPUTER	PRECISION 360	F2WKC31	DELL COMPUTER CORP F-PC'S LTD	WS-201	119	1,146.00	7021
.931467	222	COMPUTER	PRECISION 360	B2WKC31	DELL COMPUTER CORP F-PC'S LTD	WS-201	144	1,146.00	7021
328435	407	CAMERA, VIDEO	WV-CD132	73A01461	PANASONIC	WS-403	000	1,149.00	5820
328436	407	CAMERA, VIDEO	WV-CD132	73A01468	PANASONIC	WS-328	TWR	1,149.00	5820
328437	407	CAMERA, VIDEO	WV-CD132	73A01454	PANASONIC	WS-400	000	1,149.00	5820
328438	407	CAMERA, VIDEO	WV-CD132	73A01459	PANASONIC	WS-328	TWR	1,149.00	5820
328439	407	CAMERA, VIDEO	WV-CD132	73A01467	PANASONIC	WS-301	000	1,149.00	5820
328441	407	CAMERA, VIDEO, COLOR	WV-CD132	73A01480	PANASONIC	WS-400	BASE	1,149.00	5820
329891	407	CAMERA, CCD, COLOR	WV-CD132	81A03370	PANASONIC	WS-400	ROOF	1,149.00	5820
329892	407	CAMERA COLOR CCD	WV-CD132	81A03381	PANASONIC	WS-403	000	1,149.00	5820
329893	407	CAMERA COLOR CCD	WV-CD132	81A03408	PANASONIC	WS-403	000	1,149.00	5820
329895	407	CAMERA COLOR CCD	WV-CD132	70A03293	PANASONIC	WS-315	000	1,149.00	5820
329896	407	CAMERA COLOR CCD	WV-CD132	79A03292	PANASONIC	WS-302	000	1,149.00	5820
329897	407	CAMERA COLOR CCD	WV-CD132	79A03286	PANASONIC	WS-302	ROOF	1,149.00	5820
329898	407	CAMERA COLOR CCD	WV-CD132	81A03363	PANASONIC	WS-330	000	1,149.00	5820
329899	407	CAMERA COLOR CCD	WV-CD132	79A03299	PANASONIC	WS-403	000	1,149.00	5820
329900	407	CAMERA COLOR CCD	WV-CD132	81A03359	PANASONIC	WS-405	000	1,149.00	5820
839389	407	CAMERA	WVS100	08A00320	PANASONIC	WS-200	CTF	1,150.00	5820
1295423	305	MULTIMETER	8840A	6130011	FLUKE CORP	WS-300	BSMT	1,150.00	6625
1295424	305	MULTIMETER	8840A	6130013	FLUKE CORP	WS-300	BKR2	1,150.00	6625
838646	217	MICROSCOPE	SZ6	UNKNOWN	CAMBRIDGE INSTR INC OPT SYS DV	WS-203	123	1,152.00	6650
1930422	115	WELDER, ELECTRIC	LN-7	U1000114773	LINCOLN ELECTRIC CO	WS-113	SHOP	1,154.00	3431
0324909	209	NULL INDICATOR	2416	13156	RUSKA INSTRUMENT CORP	WS-203	137	1,155.00	6625
1295654	170	MICROSCOPE	STERE01	NONE	LEICA MICROSYSTEMS INC	WS-020	108	1,157.00	6650
1295655	170	MICROSCOPE	STERE01	NONE	LEICA MICROSYSTEMS INC	WS-020	108	1,157.00	6650
0482249	201	PLUG-IN	7A18A	B010558	TEKTRONIX INC	WS-203	108	1,171.00	6625
0838510	305	RECORDER VIDEO CASSETTE	AG1960	G9HG01069	PANASONIC	WS-300	000	1,175.00	5836
1551750	221	CIRCULATOR, IMMERSION	1122	708054	POLYSCIENCE CORP	WS-200	142	1,175.00	6640
1931563	201	COMPUTER	GX270	34PIR31	DELL COMPUTER CORP F-PC'S LTD	WS-203	000	1,178.00	7021
1931564	215	COMPUTER	GX270	54PIR31	DELL COMPUTER CORP F-PC'S LTD	WS-203	108	1,178.00	7021
0327991	255	CAMERA, VIDEO, COLOR	DXC-101	10616	SONY CORP OF AMERICA	WS-250	000	1,179.00	5820
1551720	420	DISPLAY UNIT	G810	Q772328709	VIEWSONIC CORP/ DIV KEYPOINT	WS-101	212	1,183.00	7025
0327801	252	CAMERA, VIDEO, COLOR	DXC-101	10383	SONY CORP OF AMERICA	WS-200	110A	1,185.00	5820
0327802	255	CAMERA, VIDEO, COLOR	DXC-101	10382	SONY CORP OF AMERICA	WS-250	000	1,185.00	5820
0327803	252	CAMERA, VIDEO, COLOR	DXC-101	10354	SONY CORP OF AMERICA	WS-255	000	1,185.00	5820
1930835	221	COMPUTER	DIMENSION 4300	7687X01	DELL COMPUTER CORP F-PC'S LTD	WS-203	124	1,186.00	7021
0838931	218	OPTICAL READER, DATA ENTRY	LS8510-1200A	25144	SYMBOL TECHNOLOGY INT'L	WS-200	LABCO	1,187.00	7025
1602855	831	BORESCOPE	50030	0094596BSG	EDMUND SCIENTIFIC CO	WS-803	000	1,190.00	6650
0838086	221	DISK DRIVE UNIT	360	108821	DORIC CORP	WS-200	136A	1,195.00	7025

This list is current as of the release date of the RFP

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
.551930	231	PRINTER, THERMAL	ALLEGRO 2	80403186	DATAMAX	WS-200	166	1,195.00	7025
.602879	231	SCANNER	FALCON 310	F2991132011	PERCOM DATA CORP	WS-200	BOND	1,195.00	7025
)324027	201	DIVIDER VOLTAGE	720A	158	FLUKE CORP	WS-203	108	1,198.00	6625
)326146	305	POWER SUPPLY 0-40 VDC	DCR-40-70B	608	RAYTHEON CO F-SORENSON POWER	WS-300	103	1,198.00	6625
1931735	215	COMPUTER	DIMENSION 4600	DMKRZ41	DELL COMPUTER CORP F-PC'S LTD	WS-203	000	1,199.00	7021
)325276	216	LENS,600MM	NONE	242-0246	KILFITT OPTISCHE FABRIK	WS-200	102	1,200.00	6760
)325277	216	LENS 600MM	NONE	2420441	KILFITT OPTISCHE FABRIK	WS-200	102	1,200.00	6760
)328184	252	SIMULATOR CAMERA	1001897	NONE	EASTMAN KODAK CO APPARATUS DIV	WS-200	100A	1,200.00	5820
)839123	201	MICROSCOPE, STEREO	100625	NONE	CAMBRIDGE INSTR INC OPT SYS DV	WS-203	108	1,200.00	6650
1042759	223	MEASUREMENT FIXTURE	T7520668	90140910	FAIRCHILD CTL SYS F-STRATOS DV	WS-201	136B	1,200.00	4960
1551279	221	PRINTER, ADP	C3916A	USKC085884	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	1,200.00	7025
1551582	115	COMPUTER	PENTIUM 133	NONE	ENLIGHT CORP	WS-113	SHOP	1,200.00	7021
1550516	406	PRINTER, ADP	C2039A	JPGF012255	HEWLETT-PACKARD CO BOISE DIV	WS-400	BLK	1,204.00	7025
1236335	201	METER, SOUND LEVEL	2203	151810	MINE SAFETY APPLIANCES CO DBA	WS-203	108	1,206.00	6625
1551513	407	DISPLAY UNIT	E21	FE7250387	MATSUSHITA ELECTRIC	WS-463	108	1,209.00	7025
1931131	301	WRENCH, TORQUE	2503CF II	7028008	CONSOLIDATED DEVICES INC	WS-300	000	1,211.00	5210
0019103	407	CAMERA, VIDEO, COLOR	WV-CL302	03B13222	PANASONIC	WS-300	101	1,212.00	5820
0019104	407	CAMERA, VIDEO, COLOR	WV-CL302	03B13236	PANASONIC	WS-302	000	1,212.00	5820
1005688	237	EXTENDER	37203A	2514U17851	HEWLETT-PACKARD CO	WS-201	137	1,214.00	7025
1005689	242	EXTENDER	37203A	2514U17931	HEWLETT-PACKARD CO	WS-272	T272A	1,214.00	7025
1005690	242	EXTENDER	37203A	2514U17853	HEWLETT-PACKARD CO	WS-272	T272A	1,214.00	7025
1005691	237	EXTENDER	37203A	2514U17849	HEWLETT-PACKARD CO	WS-201	137	1,214.00	7025
1005692	237	EXTENDER	37203A	2514U17850	HEWLETT-PACKARD CO	WS 201	137	1,214.00	7025
1005693	237	EXTENDER	37203A	2514U17848	HEWLETT-PACKARD CO	WS-201	137	1,214.00	7025
0324566	250	CONTROLLER EDITING VCR	NV-A500	4A060009	MATSUSHITA ELEC INDUS CO	WS-200	100A	1,215.00	5820
0329663	250	CONTROLLER EDITING	NV-A500	2D200044	PANASONIC	WS-200	100	1,215.00	5820
0325958	207	TRANSCEIVER VHF	MX350	278AEL1904	MOTOROLA INC AUTOMOTIVE PROD	WS-203	117	1,216.00	5820
1930691	222	CAMERA, PAN/TILT	WV-CS554	AAA02931	PANASONIC	WS-800	C861	1,217.00	6710
1235478	221	PLOTTER, GRAPHICS	7475A	3005L47605	HEWLETT-PACKARD CO	WS-200	143	1,219.00	7025
1551552	407	RECORDER, VIDEO CASSETTE	SRS365U	12212777	JVC CO OF AMERICA	WS-400	105	1,223.00	5836
1551553	407	RECORDER, VIDEO CASSETTE	SRS365U	12212618	JVC CO OF AMERICA	WS-400	105	1,223.00	5836
1551554	407	RECORDER, VIDEO CASSETTE	SRS365U	12212773	JVC CO OF AMERICA	WS-400	105	1,223.00	5836
1551555	407	RECORDER, VIDEO CASSETTE	SRS365U	12212651	JVC CO OF AMERICA	WS-400	105	1,223.00	5836
1551556	407	RECORDER, VIDEO CASSETTE	SRS365U	12212636	JVC CO OF AMERICA	WS-300	102	1,223.00	5836
1551557	407	RECORDER, VIDEO CASSETTE	SRS365U	12212768	JVC CO OF AMERICA	WS-300	102	1,223.00	5836
1551558	407	RECORDER, VIDEO CASSETTE	SRS365U	12212778	JVC CO OF AMERICA	WS-300	102	1,223.00	5836
1551559	407	RECORDER, VIDEO CASSETTE	SRS365U	12212626	JVC CO OF AMERICA	WS-300	102	1,223.00	5836
0325450	217	METER SURVEY WIDE RANGE	471A	306	HEICO OHMITE LLC	WS-203	123	1,225.00	6665
0327663	201	POWER METER	432A	1848A27364	HEWLETT-PACKARD CO	WS-203	108	1,225.00	6625
1236455	831	CAMERA, VIDEO	WV-D5100HS	47A00064	MITSUBISHI CABLE INDUSTRIES	WS-800	108	1,225.00	5836
1236456	831	CAMERA, VIDEO	WV-5100HS	47A00093	MITSUBISHI CABLE INDUSTRIES	WS-800	101	1,225.00	5836
1930060	407	COMPUTER	PENTIUM333MHZ	9800048484	PREMIO TECHNOLOGIES	WS-400	STEAM	1,232.00	7021
1930067	215	COMPUTER	PENTIUM333MHZ	9800048487	PREMIO TECHNOLOGIES	WS-203	108	1,232.00	7021
1930107	306	COMPUTER	PENTIUM333MHZ	9800098973	PREMIO TECHNOLOGIES	WS-362	000	1,232.00	7021
1930843	222	PRINTER, ADP	4100	USNBG46199	HEWLETT PACKARD CO DIS	WS-201	113	1,236.00	7025
1931353	221	COMPUTER	DIMENSION 4550	BGFWQ21	DELL COMPUTER CORP F-PC'S LTD	WS-200	135	1,237.00	7021
0329656	214	POWER SUPPLY	MAC-03	148818	COMPACT POWER CO	WS-201	134	1,238.00	6130
1551780	407	DISPLAY UNIT	P815	QE75007318	VIEWSONIC CORP/ DIV KEYPOINT	WS-400	BNKR2	1,238.00	7025
1551782	407	DISPLAY UNIT	P815	QE75007314	VIEWSONIC CORP/ DIV KEYPOINT	WS-400	105	1,238.00	7025
1551213	242	COMPUTER	P5-133	70033900	INFOTEL INC	WS-203	130	1,241.00	7021
0329806	201	MULTIMETER DIGITAL	8842A	4522283	FLUKE CORP	WS-203	108	1,245.00	6625
0329807	201	MULTIMETER DIGITAL	8842A	4522282	FLUKE CORP	WS-203	108	1,245.00	6625
0772793	304	METER VOLT-OHM DIGITAL	3478A	2301A08536	HEWLETT-PACKARD CO	WS-300	114A	1,249.00	6625

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
772794	304	METER VOLT-OHM DIGITAL	3478A	2301A08537	HEWLETT-PACKARD CO	WS-300	114A	1,249.00	6625
235655	831	DISPLAY UNIT	JC1742UMA	31D20294A	NEC ELECTRONICS USA INC	WS-803	000	1,249.00	7025
324163	201	STANDARD,RESISTANCE	RCS105/7	11	GENERAL INSTRUMENT CORP	WS-203	108	1,250.00	6625
324164	201	STANDARD,RESISTANCE	RCS105/7	10	JULIE RESEARCH LABORATORIES	WS-203	108	1,250.00	6625
838144	405	CALIBRATOR, FREQUENCY	110	1693	BETA PRODUCTS INC	WS-400	101	1,250.00	6625
838145	304	CALIBRATOR, DC	110	1694	BETA PRODUCTS INC	WS-300	115	1,250.00	6625
235980	237	DISPLAY UNIT	JC1741UMC	37C00336A	NEC ELECTRONICS USA INC	WS-800	HPTA	1,250.00	7025
324067	201	GENERATOR TIME MARK	TG501	B034775	TEKTRONIX INC	WS-203	108	1,253.00	6625
703824	201	AUDIO TEST SET	3550A	51602992	HEWLETT-PACKARD CO	WS-203	108	1,255.00	6625
325194	242	EXTENDER HPIB	37203A	2020U1531	HEWLETT-PACKARD CO	WS-272	NNBK	1,258.00	7035
930190	209	COMPUTER	PENTIUMII 333MHZ	30865	MICRO SYSTEM INC	WS-203	000	1,258.00	7021
236062	215	MULTIMETER	8842A	5885263	FLUKE CORP	WS-203	134	1,260.00	6625
002476	4	MACHINE, COPY	5227	L0571070250	LANIER WORLDWIDE INC	WS-113	FAB	1,260.00	7025
551518	106	DISPLAY UNIT	G810	QYY2124148	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
551519	106	DISPLAY UNIT	G810	Q772124153	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
551520	106	DISPLAY UNIT	G810	Q772124310	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
551521	106	DISPLAY UNIT	G810	Q772124146	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
551522	106	DISPLAY UNIT	G810	Q772124156	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
551523	106	DISPLAY UNIT	G810	Q772124149	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
551524	106	DISPLAY UNIT	G810	Q772124147	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
551525	106	DISPLAY UNIT	G810	Q772124318	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
551526	106	DISPLAY UNIT	G810	Q772124317	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
551527	106	DISPLAY UNIT	G810	Q772124319	VIEWSONIC CORP/ DIV KEYPOINT	WS-100	DRAFT	1,264.00	7025
930842	221	COMPUTER	DIMENSION 4300	F27S01	DELL COMPUTER CORP F-PC'S LTD	WS-203	124	1,266.00	7021
295634	221	DISK DRIVE, OPTICAL	230MB	100207047	PINNACLE MICRO INC	WS-203	146	1,267.00	7025
329795	240	PLOTTER, GRAPHICS	7475A	2641074883	HEWLETT-PACKARD CO	WS-800	208	1,269.00	7025
329870	252	CAMERA, VIDEO	WV3260	85A06223	PANASONIC	WS-200	800A	1,270.00	5820
329871	252	CAMERA, VIDEO	WV3260	85A06206	PANASONIC	WS-200	800A	1,270.00	5820
838317	217	PLOTTER, GRAPHICS	7475A	2908V02029	HEWLETT-PACKARD CO	WS-203	000	1,270.00	7025
235589	243	DISPLAY UNIT	JC1741UMA	31L07413B	NEC ELECTRONICS USA INC	WS-272	NBUNK	1,276.00	7025
326179	237	MULTIMETER DIGITAL	8810A	2370044	FLUKE CORP	WS-201	137	1,279.00	6625
772893	201	AMPLIFIER, DUAL TRACE, PLUG-IN	7A26	B193317	TEKTRONIX INC	WS-203	108	1,282.00	6625
772894	201	AMPLIFIER, DUAL TRACE, PLUG-IN	7A26	B193082	TEKTRONIX INC	WS-203	108	1,282.00	6625
1005839	8	TYPEWRITER	6787	11VM382	INTERNATIONAL BUSINESS MACHINE	WS-364	000	1,287.00	7430
1235836	216	CAMERA	645	1051144	PENTAX CORP	WS-200	102	1,289.00	6720
1235920	216	CAMERA	645	1050797	PENTAX CORP	WS-200	102	1,289.00	6720
1551408	408	SCOPEMETER	123	DM6750091	FLUKE CORP	WS-400	101	1,290.00	6625
1551722	221	UNINTERUPTED POWER SUPPLY	SM1834	NONE	TRIPPLITE DIV TRIPP MFG	WS-203	146	1,291.00	7025
1446414	201	POWER SUPPLY	6114A	1928A01732	HEWLETT-PACKARD CO BOISE DIV	WS-203	108	1,295.00	6130
1930650	219	CAMERA, VIDEO	VIDEOFLEX	7.60005E+11	KEN-A-VISION	WS-201	120	1,295.00	5836
1295600	305	CONTROLLER	200SX	NONE	OPTO-22	WS-300	000	1,297.00	7025
0325487	252	CAMERA, VIDEO, COLOR	KC768	14WA10269	MATSUSHITA ELECTRIC CORP OF AM	WS-200	100A	1,299.00	5820
0329204	252	CAMERA, VIDEO, COLOR	AG160	H7HD00931	PANASONIC	WS-200	100A	1,299.00	5820
0329571	221	DISK DRIVE UNIT	9153A	2702A25946	HEWLETT-PACKARD CO	WS-203	146	1,299.00	7025
0326873	252	CAMERA VIDEO	KC768	FAWA10385	MATSUSHITA ELECTRIC CORP OF AM	WS-200	100A	1,300.00	5820
1551768	221	COMPUTER	200MMX	9700136463	PREMIO TECHNOLOGIES	WS-203	111	1,300.00	7021
1551991	221	COMPUTER	P5200	NONE	FAME 1 COMPUTERS	WS-203	146	1,300.00	7021
1930208	837	COMPUTER	PENTIUMII 400MHZ	31080	MICROSYS AUTOMATION INC	WS-802	000	1,301.00	7021
1551014	405	COMPUTER	PENTIUM MIDTOWER	9600017702	COMPUTER SERVICE CORP	WS-400	105	1,306.00	7021
1654816	227	CAMERA, DIGITAL	COOLPIX995	3543580	NIKON CORP	WS-200	NHB	1,315.00	6720
0325193	242	EXTENDER	37203A	2040U03501	HEWLETT-PACKARD CO	WS-272	SBNK	1,319.00	7025
1931584	215	COMPUTER	DIMENSION 4600	9LND341	DELL COMPUTER CORP F-PC'S LTD	WS-203	108	1,323.00	7021
1931585	215	COMPUTER	DIMENSION 4600	BLND341	DELL COMPUTER CORP F-PC'S LTD	WS-203	134	1,323.00	7021

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931586	215	COMPUTER	DIMENSION 4600	CLND341	DELL COMPUTER CORP F-PC'S LTD	WS-203	138	1,323.00	7021
930523	250	VIEWER, INFRARED	7215	21371	ELECTRO PHYSICS CORP	WS-200	109	1,325.00	6760
235870	406	PRINTER, ADP	C2001A	JPBK016156	HEWLETT-PACKARD CO	WS-400	000	1,330.00	7025
654797	407	CAMERA, DIGITAL	MVC-FD91	196233	SONY CORP	WS-462	000	1,342.00	6720
)325774	408	DISPLAY REMOTE	9521-157	317	DATUM INC F-PERIPH. INTERFACE	WS-400	106	1,345.00	6625
)773036	408	DISPLAY REMOTE	9521-157	318	DATUM INC F-PERIPH. INTERFACE	WS-400	105	1,345.00	6625
)773037	408	DISPLAY REMOTE	9521-157	316	DATUM INC F-PERIPH. INTERFACE	WS-400	106	1,345.00	6625
.552120	407	POWER SUPPLY	DCS33-33E	9821178	SORENSEN	WS-400	BASE	1,345.00	6130
.552122	407	POWER SUPPLY	DCS33-33E	9822176	SORENSEN	WS-300	BUNK1	1,345.00	6130
.552123	407	POWER SUPPLY	DCS33-33E	9822175	SORENSEN	WS-300	BUNK1	1,345.00	6130
)324165	201	INDUCTOR STANDARD	1482-L	NONE	GENRAD INC EMT ELECTRONIC TEST	WS-203	108	1,347.00	6625
1930851	420	DISPLAY UNIT	VLCDS21594-2	AOV013610087	VIEWSONIC CORP/ DIV KEYPOINT	WS-101	000	1,349.00	7025
)324174	201	POWER SUPPLY	NONE	24000173	HEWLETT-PACKARD CO	WS-203	108	1,350.00	6130
1235872	832	COMPUTER	Apr-33	A324HER20401	COMPAQ COMPUTER CORP	WS-802	000	1,350.00	7021
1236001	306	PRINTER, ADP	LASERJET 4	JPBK044751	HEWLETT-PACKARD CO	WS-362	000	1,354.00	7025
)323592	405	OSCILLOSCOPE	122C	9985	TEKTRONIX INC	WS-400	BKR2	1,355.00	6625
1931226	225	COMPUTER	OPTIPLEX GX260	328R221	DELL COMPUTER CORP F-PC'S LTD	WS-201	112	1,368.00	7021
1930668	832	SYSTEM, COMPUTER	NUPRO615	NONE	CIRCUIT SPECIALISTS INC	WS-800	C107	1,372.00	7021
1931646	220	SYSTEM, COMPUTER	NUPRO 615	11368	CIRCUIT SPECIALISTS INC	WS-203	103	1,372.00	7021
0324240	207	RADIO PORTABLE 4-CHAN 5-WATT	H33BBU1144N	230AHN1758	MOTOROLA INC	WS-270	000	1,374.00	5820
0324242	207	RADIO PORTABLE 4-CHAN 5-WATT	H33BBU1144N	230AHN1760	MOTOROLA INC	WS-272	000	1,374.00	5820
0838142	304	CALIBRATOR, TEMPERATURE	211	1676	BETA PRODUCTS INC	WS-300	115	1,375.00	6625
0838143	408	CALIBRATOR, TEMPERATURE	211	1673	BETA PRODUCTS INC	WS-462	CBNT	1,375.00	6625
0329969	237	POWER SUPPLY	6266B	2745A05924	HEWLETT-PACKARD CO	WS-831	000	1,377.00	6130
0699879	304	POWER SUPPLY	6114A	2412A03731	HEWLETT PACKARD CO	WS-300	115	1,380.00	6130
1552106	221	PUMP, VACUUM DIAPHRAGM	MZ2	20107107	VACUUBRAND GMBH UND CO	WS-203	000	1,385.00	4310
0490231	304	POWER SUPPLY	LES-F020V	J14896	VEECO INSTR INC LAMBDA ELECTR	WS-300	114A	1,386.00	6130
1931080	420	PRINTER, ADP	4100N	USNLK10218	HEWLETT PACKARD CO DIS	WS-300	102	1,389.00	7025
1931081	420	PRINTER, ADP	4100N	USLNK10222	HEWLETT PACKARD CO DIS	WS-400	105	1,389.00	7025
1931082	420	PRINTER, ADP	4100N	USLNK10226	HEWLETT PACKARD CO DIS	WS-300	102	1,389.00	7025
0022472	211	PHOTOMETER/SENSOR HEAD	J1820	B010150	TEKTRONIX INC	WS-203	108	1,392.00	6650
1930080	219	COMPUTER	PENTIUM333MHZ	9800049320	PREMIO TECHNOLOGIES	WS-201	118	1,394.00	7021
1931346	219	COMPUTER	DIMENSION 4550	2KZYN21	DELL COMPUTER CORP F-PC'S LTD	WS-201	120	1,394.00	7021
0329434	201	MULTIMETER DIGITAL	8842A/059	4427288	FLUKE CORP	WS-203	108	1,395.00	6625
0329437	201	MULTIMETER DIGITAL	8842A/059	4427286	FLUKE CORP	WS-203	108	1,395.00	6625
0329438	201	MULTIMETER DIGITAL	8842A/059	4427287	FLUKE CORP	WS-203	108	1,395.00	6625
0838517	252	RECORDER, VIDEO CASSETTE	TLS1000	88151021	SANYO ELECTRIC CO LTD	WS-200	110A	1,395.00	5836
1236157	221	DISK DRIVE UNIT	TAHOE130	100103106	PINNACLE MICRO INC	WS-203	146	1,399.00	7025
1235965	221	COMPUTER	4DX33	1512512	GATEWAY COMPANIES INC	WS-200	144	1,400.00	7021
1446382	255	COMPUTER	BABYAT	3798657	GATEWAY COMPANIES INC	WS-252	000	1,400.00	7021
1550667	227	COMPUTER	P5-100	60036382	INFOTEL INC	WS-200	OMS	1,400.00	7021
1550668	201	COMPUTER	ULTRA P5-100	60036377	INFOTEL INC	WS-203	108	1,400.00	7021
1550672	215	COMPUTER	ULTRA P5-100	60036378	INFOTEL INC	WS-203	138	1,400.00	7021
1550673	210	COMPUTER	ULTRA P5-100	60036381	INFOTEL INC	WS-203	138	1,400.00	7021
1551065	221	PRINTER, ADP	C3916A	JPHK031194	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	1,400.00	7025
1551178	222	COMPUTER	BATC	6051006	GATEWAY COMPANIES INC	WS-800	CTRL	1,400.00	7021
1235604	831	CAMPUTER	LP486I33DX	1165362	GATEWAY COMPANIES INC	WS-800	101	1,405.00	7021
1235610	831	COMPUTER	2000	609385	GATEWAY COMPANIES INC	WS-800	119	1,405.00	7021
1930253	803	PRINTER, ADP	C4172A	USDQ001808	HEWLETT PACKARD CO DIS	WS-803	000	1,415.00	7025
1930254	803	PRINTER, ADP	C4172A	USDQ001833	HEWLETT PACKARD CO DIS	WS-800	203	1,415.00	7025
1930612	221	TANK, HEATING BATH	12106-00	923444	COLE-PARMER INSTRUMENT CO	WS-200	STORG	1,415.00	6640
0839355	406	PRINTER, ADP	LASERJET III	FRL92267	HEWLETT-PACKARD CO	WS-460	000	1,417.00	7025
1931043	215	COMPUTER	DIMENSION 4500	CTCVQ11	DELL COMPUTER CORP F-PC'S LTD	WS-203	108	1,417.00	7021

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551542	407	RECORDER, VIDEO CASSETTE	AG6740P	G7TA00410	MATSUSHITA GRAPHIC COMM LTD	WS-300	102	1,418.00	5836
551543	407	RECORDER, VIDEO CASSETTE	AG6740P	G7TA00405	MATSUSHITA GRAPHIC COMM LTD	WS-400	105	1,418.00	5836
025631	837	RECEIVING SET, TELEVISION	VM26	1084032-P	SONY CORP	WS-800	CTRL	1,424.00	7730
930828	406	COMPUTER	NONE	60YCW01	DELL COMPUTER CORP F-PC'S LTD	WS-463	108	1,424.00	7021
931298	201	COMPUTER	DIMENSION 4550	5C37C21	DELL COMPUTER CORP F-PC'S LTD	WS-203	108	1,424.00	7021
930574	231	PRINTER, ADP	5000	USB3036695	HEWLETT PACKARD CO DIS	WS-200	MZ3	1,426.00	7025
930575	306	PRINTER, ADP	5000	USD3017957	HEWLETT PACKARD CO DIS	WS-362	000	1,426.00	7025
930576	306	PRINTER, ADP	5000	USB3036536	HEWLETT PACKARD CO DIS	WS-363	000	1,426.00	7025
930577	306	PRINTER, ADP	5000	USB3036696	HEWLETT PACKARD CO DIS	WS-362	000	1,426.00	7025
931371	221	COMPUTER	DIMENSION 4550	6YP5T21	DELL COMPUTER CORP F-PC'S LTD	WS-200	135	1,430.00	7021
931316	214	COMPUTER	DIMENSION 4550	HK1WG21	DELL COMPUTER CORP F-PC'S LTD	WS-201	139	1,434.00	7021
931450	831	COMPUTER	OPTIPLEX GX270	2XNLC31	DELL COMPUTER CORP F-PC'S LTD	WS-803	101	1,438.00	7021
327705	252	RECORDER VIDEO CASSETTE	AG6300	A6TA00879	PANASONIC	WS-200	100A	1,440.00	5820
930337	406	COMPUTER	PENTIUM III	99612964	TOTAL PERIPHERALS	WS-462	000	1,448.00	7021
930339	406	COMPUTER	PENTIUM III	99612968	TOTAL PERIPHERALS	WS-362	000	1,448.00	7021
930340	306	COMPUTER	PENTIUM III	99612966	TOTAL PERIPHERALS	WS-363	000	1,448.00	7021
931973	242	SYSTEM, COMPUTER	NONE	11458	CIRCUIT SPECIALISTS INC	WS-200	000	1,449.00	7021
839244	250	MONITOR, CCTV	GVM1300	2000693	SONY CORP	WS-200	100	1,450.00	5820
839910	406	PRINTER, ADP	33449A	3107J667791	HEWLETT-PACKARD CO	WS-201	103A	1,458.00	7025
839943	406	PRINTER, ADP	33449A	3044J89454	HEWLETT-PACKARD CO	WS-412	000	1,458.00	7025
931582	222	COMPUTER	PRECISION 360	JCHH441	DELL COMPUTER CORP F-PC'S LTD	WS-201	114	1,461.00	7021
929992	831	MICROSCOPE	13410106	222344 19	LEICA INC INDUSTRIAL MEASURING	WS-803	000	1,465.00	6650
931157	242	PROCESSOR	NUPRO 615	10961	ADLINK TECH INC.	WS-800	CONTR	1,467.00	1467
931576	221	COMPUTER	GX270	JYTK341	DELL COMPUTER CORP F-PC'S LTD	WS-200	000	1,469.00	7021
930610	831	COMPUTER, MICRO	NONE	F89T601	DELL COMPUTER CORP F-PC'S LTD	WS-803	101	1,470.00	7021
550859	405	RECORDER, CD	CDR4000MA	00074-000265	SMART AND FRIENDLY INC	WS-462	000	1,471.00	7025
931257	222	COMPUTER	DIMENSION 8250	7CCV321	DELL COMPUTER CORP F-PC'S LTD	WS-201	119	1,471.00	7021
793111	211	GENERATOR TIME MARK	TG501	B035704	TEKTRONIX INC	WS-203	108	1,475.00	6625
551651	420	PRINTER, ADP	C3917A	USKB236222	HEWLETT-PACKARD CO BOISE DIV	WS-400	BLK	1,475.00	7025
329009	252	CAMERA, VIDEO	WV3260-8	77A13132	PANASONIC	WS-800	113	1,476.00	5820
930250	219	PRINTER, ADP	5000N	USC1042773	HEWLETT PACKARD CO DIS	WS-201	120	1,476.00	7025
551762	230	PRINTER, ADP	C4121A	USEF58426	HEWLETT-PACKARD CO BOISE DIV	WS-201	139	1,484.00	7025
930344	221	DISK DRIVE UNIT	4.6GB	385002966	PINNACLE MICRO INC	WS-203	146	1,484.00	7025
931035	406	PRINTER, ADP	4100	USLND14187	HEWLETT PACKARD CO DIS	WS-400	000	1,498.00	7025
839683	242	DISK DRIVE UNIT	B22022X	7821040017	IOMEGA	WS-201	144	1,499.00	7025
930393	219	PRINTER, ADP	4050TN	USQX059905	HEWLETT PACKARD CO DIS	WS-201	113	1,499.00	7025
236046	831	COMPUTER	4DX33	1588604	GATEWAY COMPANIES INC	WS-800	116	1,500.00	7021
550704	406	COMPUTER	BABY TOWER	SYS1071	TOME COMPUTER SERVICE	WS-400	BUNKR	1,500.00	7021
550938	220	COMPUTER	PENTIUM MINITOWER	79601525	COMPUTER SERVICE CORP	WS-203	130	1,500.00	7021
551004	231	COMPUTER	P5-133	60061149	INFOTEL INC	WS-200	MEZZ1	1,500.00	7021
551308	242	COMPUTER	MWG200	70062026	INFOTEL INC	WS-201	114	1,500.00	7021
551491	231	COMPUTER	PENTIUM200MX	9700106091	PREMIO TECHNOLOGIES	WS-200	MZ1	1,500.00	7021
551493	406	COMPUTER	PENTIUM200MX	9700106080	PREMIO TECHNOLOGIES	WS-400	000	1,500.00	7021
551496	8	COMPUTER	PENTIUM200MX	9700106081	PREMIO TECHNOLOGIES	WS-400	100A	1,500.00	7021
551499	420	COMPUTER	PENTIUM200MX	9700106084	PREMIO TECHNOLOGIES	WS-101	212	1,500.00	7021
551505	221	COMPUTER	PENTIUM200MX	9700106093	PREMIO TECHNOLOGIES	WS-203	147	1,500.00	7021
551933	831	COMPUTER	200 MMX	01-10935468	WEST TECH	WS-803	000	1,500.00	7021
930158	221	COMPUTER	VL601-501B	1204004	TRADEMARK COMPUTER SYSTEMS	WS-203	146	1,500.00	7021
930159	221	COMPUTER	VL601-501B	1204001	TRADEMARK COMPUTER SYSTEMS	WS-203	111	1,500.00	7021
930160	221	COMPUTER	VL601-501B	1204002	TRADEMARK COMPUTER SYSTEMS	WS-203	111	1,500.00	7021
930161	221	COMPUTER	VL601-501B	1204005	TRADEMARK COMPUTER SYSTEMS	WS-203	146	1,500.00	7021
930162	221	COMPUTER	VL601-501B	1204005	TRADEMARK COMPUTER SYSTEMS	WS-203	111	1,500.00	7021
551266	221	COMPUTER	P5-133	70061020	INFOTEL INC	WS-203	124	1,504.00	7021

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Nation Stock #	Document Control #
24383	832	INDICATOR, PRESSURE, DIGITAL	710A	S7-11822	DRESSER IND/HEISE PLANT F-IND-	WS-203	000	1,505.00	6685
26619	832	INDICATOR, PRESSURE, DIGITAL	710A	S7-11821	DRESSER IND/HEISE PLANT F-IND-	WS-800	C111	1,505.00	6685
39108	250	PRINTER, ADP	33449A	3022A03261	HEWLETT-PACKARD CO	WS-200	100	1,509.00	7025
39196	221	PRINTER, ADP	33449A	3026J67209	HEWLETT-PACKARD CO	WS-200	137	1,509.00	7025
30430	8	PRINTER, ADP	4050TN	USQX058219	HEWLETT-PACKARD CO BOISE DIV	WS-364	000	1,510.00	7025
36270	252	CART,TRANSPORT	700	NONE	FLIR SYSTEMS-BOSTON INC	WS-200	100A	1,531.00	6150
36272	252	FOCUS,REMOTE CONTROL	760	8593	FLIR SYSTEMS-BOSTON INC	WS-200	100A	1,531.00	5821
51869	230	PRINTER, ADP	C4121A	USNC071124	HEWLETT-PACKARD CO BOISE DIV	WS-201	104	1,539.00	7025
51871	230	PRINTER, ADP	C4121A	USNC071131	HEWLETT-PACKARD CO BOISE DIV	WS-803	000	1,539.00	7025
51924	420	PRINTER, ADP	C4121A	USNC083467	HEWLETT-PACKARD CO BOISE DIV	WS-101	212	1,543.00	7025
30292	115	PRINTER, ADP	4050TN C4254A	SQF030213	HEWLETT-PACKARD CO BOISE DIV	WS-113	SHOP	1,550.00	7025
30734	170	SET, BORE GAUGE	FOB-63010-B	54363010	FOWLER MFG CO	WS-113	121	1,550.00	5220
29997	228	PRINTER	LASERJET4000	SUSEF162221	HEWLETT-PACKARD CO BOISE DIV	WS-200	132	1,551.00	7025
29998	228	PRINTER	LASERJET4000	SUSEB025831	HEWLETT-PACKARD CO BOISE DIV	WS-200	209	1,551.00	7025
50966	405	DISPLAY UNIT	C2192P	FC6131086	MATSUSHITA ELECTRIC	WS-400	105	1,555.00	7025
75116	201	COUNTER TIMER	7260A	3965000	FLUKE CORP	WS-203	108	1,558.00	6625
51632	305	PRINTER, ADP	C3917A	USKB236497	HEWLETT-PACKARD CO BOISE DIV	WS-300	000	1,561.00	7025
31463	115	COMPUTER	DIMENSION 4600	B75DB31	DELL COMPUTER CORP F-PC'S LTD	WS-113	MACHI	1,569.00	7021
31571	8	COMPUTER	GX270	J59KV31	DELL COMPUTER CORP F-PC'S LTD	WS-364	101	1,573.00	7021
62514	407	MONITOR, WAVEFORM	RM529	13649	TEKTRONIX INC	WS-400	105	1,575.00	6625
72478	407	MONITOR, WAVEFORM	RM529	13393	TEKTRONIX INC	WS-300	102	1,575.00	6625
235723	837	COMPUTER	4DX33	1300431	GATEWAY COMPANIES INC	WS-800	CTRL	1,575.00	7021
235724	837	COMPUTER	4DX33	1300432	GATEWAY COMPANIES INC	WS-800	CTRL	1,575.00	7021
930490	832	COMPUTER	OPTIPLEXGX1	HGRK20B	DELL COMPUTER CORP F-PC'S LTD	WS-802	000	1,577.00	7021
931596	420	COMPUTER	GX270	6SD5641	DELL COMPUTER CORP F-PC'S LTD	WS-101	212	1,583.00	7021
930421	170	PRINTER, ADP	4050TN	USQX055051	HEWLETT PACKARD CO DIS	WS-200	NHB	1,584.00	7025
930356	231	PRINTER, ADP	C4254A	USQB031386	HEWLETT PACKARD CO DIS	WS-200	MZ3	1,585.00	7025
446409	217	METER, RADIATION	450P-DESI	598	VICTOREEN INC NUCLEAR ASSOC	WS-203	123	1,594.00	6665
295645	224	PLOTTER, X-Y	WX1100	4050133	WESTERN GRAPHTEC INC	WS-200	LABCN	1,595.00	6625
550514	204	POWER SUPPLY	6114A	2938A05952	HEWLETT-PACKARD CO BOISE DIV	WS-203	133	1,595.00	6130
930239	220	GENERATOR WAVEFORM FUNCTION	DS345	32842	STANFORD RESEARCH SYSTEMS INC	WS-250	000	1,595.00	6115
931566	218	COMPUTER	GX270	IFLGS31	DELL COMPUTER CORP F-PC'S LTD	WS-200	117	1,595.00	7021
551422	407	DISPLAY UNIT	P21	FE7250033	MATSUSHITA ELEC INDUS CO	WS-400	105	1,597.00	7025
930646	105	PRINTER, ADP	4050TN	USQX105628	HEWLETT PACKARD CO DIS	WS-100	217	1,599.00	7025
807804	242	POWER METER	FOT32-02G32	5552C2	EXFO ELECTRO-OPTICAL ENGR	WS-800	208	1,600.00	6625
235822	831	COMPUTER	4DX33	1407217	GATEWAY COMPANIES INC	WS-800	101	1,600.00	7021
235903	237	COMPUTER	4DX33	1469528	GATEWAY COMPANIES INC	WS-800	CTR	1,600.00	7021
550818	227	FILTER, DUAL CHANNEL	3362	1035	KROHN-HITE CORP	WS-200	163	1,600.00	6625
550849	406	COMPUTER	P5-133	60051150	INFOTEL INC	WS-460	000	1,600.00	7021
551031	221	COMPUTER	P5-100	60061150	INFOTEL INC	WS-203	146	1,600.00	7021
551119	251	COMPUTER	PENTIUM MIDTOWER	9600002338	COMPUTER SERVICE CORP	WS-203	115	1,600.00	7021
551946	8	COMPUTER	200MMX	01-2181349-0001	MITAC CORP	WS-364	000	1,600.00	7021
930323	405	RECORDER	200XY	R29632031C	RECORDER CO.	WS-400	106	1,600.00	7460
552082	406	COMPUTER	PREMIOMTP6B	9800060992	PREMIO TECHNOLOGIES	WS-411	000	1,606.00	7021
551367	834	SCANNER	SCAN-P-X-CI-TEMPVOL4	S3104-7157	AZONIX CORP	WS-250	000	1,610.00	6665
651214	231	CAMERA	WV-GL920A	CCA07857	PANASONIC	WS-200	NHB	1,612.00	6710
651215	231	CAMERA	WV-GL920A	CCA07874	PANASONIC	WS-200	NHB	1,612.00	6710
838253	305	COMPUTER	EL	7953242HR	NEC ELECTRONICS USA INC	WS-362	000	1,622.00	7021
235972	218	HOIST	311532506	930602	LIFT TECH	WS-200	LABCO	1,622.00	3950
838726	252	CAMERA, VIDEO, COLOR	BY10U	12450502	JVC CO OF AMERICA	WS-200	110A	1,624.00	5820
324069	201	GENERATOR LEVELED SINEWAVE	SG-503	B067462	TEKTRONIX INC	WS-203	108	1,625.00	6625
772802	201	COUNTER UNIVERSAL	HP5316A	2308A04802	HEWLETT-PACKARD CO	WS-203	108	1,625.00	7021
773083	237	COUNTER UNIVERSAL 100 MHZ	5316A	2308A04183	HEWLETT-PACKARD CO	WS-800	208	1,625.00	7025

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Nation Stock #	Document Control #
24102	207	OSCILLOSCOPE	422AC-DC	3069	TEKTRONIX INC	WS-200	161	1,633.00	6625
30229	221	PRINTER	4000TN	USQA040332	HEWLETT-PACKARD CO BOISE DIV	WS-200	130	1,634.00	7025
29432	405	COMPUTER	EL	7854979HR	NEC TECHNOLOGIES INC FRMLY NEC	WS-400	106	1,639.00	7021
24066	201	GENERATOR CALIBRATION	PG-506	B034821	TEKTRONIX INC	WS-203	108	1,647.00	6625
52144	231	COMPUTER	PENTIUMII	D8805P025	DTK COMPUTER INC	WS-200	MZ2	1,648.00	7021
52146	306	COMPUTER	PENTIUMII	D8805P021	DTK COMPUTER INC	WS-362	000	1,648.00	7021
29980	231	COMPUTER	PENTIUMII	D8805P029	DTK COMPUTER INC	WS-200	MEZZ1	1,648.00	7021
73095	216	CAMERA, COPY	F-3	1713468	NIKON INC	WS-200	102	1,650.00	6720
02894	115	SCANNER, HAND HELD	FALCON 310	F299349074	PERCOM DATA CORP	WS-113	FAB	1,650.00	7025
54767	221	SCANNER, HAND HELD	FALCON310	F200140034	PERCOM DATA CORP	WS-203	146	1,650.00	7025
54768	221	SCANNER, HAND HELD	FALCON310	F200139052	PERCOM DATA CORP	WS-200	137	1,650.00	7025
30373	221	COMPUTER	OPTI PLEXGX1	G5ECR	DELL COMPUTER CORP F-PC'S LTD	WS-200	135	1,652.00	7021
51131	217	METER, RADIATION	450P-DE	770	VICTOREEN INC NUCLEAR ASSOC	WS-203	123	1,653.00	6665
31465	231	COMPUTER	DIMENSION 4600	G72DB31	DELL COMPUTER CORP F-PC'S LTD	WS-200	BROOM	1,655.00	7021
46191	227	POWER SUPPLY	6543A	3425A00313	HEWLETT-PACKARD CO	WS-200	163	1,661.00	6130
27092	209	MULTIMETER PROGRAMABLE DIGITAL	192	256891	KEITHLEY INSTRUMENTS INC	WS-203	137	1,665.00	6625
31136	204	COMPUTER	DIMENSION	GKT8V11	DELL COMPUTER CORP F-PC'S LTD	WS-203	137	1,666.00	7021
28537	252	CAMERA, VIDEO	AG160	350716	PANASONIC	WS-200	203A	1,677.00	5820
30777	231	PRINTER, ADP	4100N	USBNH33747	HEWLETT PACKARD CO DIS	WS-200	MZ2	1,689.00	7025
50820	222	DISK DRIVE UNIT	VERTEX2.6GB	485006569	PINNACLE MICRO INC	WS-201	103A	1,695.00	7025
50827	201	METER, MAGNETIC FIELD	HI3627	86482	HOLADAY INDUSTRIES INC	WS-203	000	1,695.00	6625
50893	406	COMPUTER	PENTIUM MIDTOWER	9600000412	COMPUTER SERVICE CORP	WS-300	BLK	1,695.00	7021
30641	170	PRINTER, ADP	LASERJET4050TN	USCF042043	HEWLETT PACKARD CO DIS	WS-463	000	1,697.00	7025
29064	170	PRINTER, ADP	33440A	2718J67722	HEWLETT-PACKARD CO	WS-200	000	1,699.00	7025
51217	216	CAMERA	D100	2178412	NIKON CORP	WS-200	000	1,699.00	6710
30228	261	GENERATOR	EG5000X	EA7-4127749	HONDA MOTOR CO LTD	WS-638	000	1,699.00	2920
26415	217	METER CORROSION	WSG2,KBI	20003-1289	KRAUTKRAMER BRANSON INC	WS-203	123	1,700.00	6635
51085	201	COMPUTER	PENTIUM MIDTOWER	9600024715	COMPUTER SERVICE CORP	WS-203	108	1,700.00	7021
51598	218	COMPUTER	PENTIUM TOWER	9700105965	PREMIO TECHNOLOGIES	WS-200	LABCO	1,700.00	7021
51657	243	COMPUTER	PENTIUM TOWER	9700107849	PREMIO TECHNOLOGIES	WS-201	105	1,700.00	7021
51658	306	COMPUTER	PENTIUM TOWER	9700107850	PREMIO TECHNOLOGIES	WS-363	000	1,700.00	7021
51659	832	COMPUTER	PENTIUM TOWER	9700089352	PREMIO TECHNOLOGIES	WS-802	000	1,700.00	7021
51687	210	COMPUTER	PENTIUM TOWER	9700121386	PREMIO TECHNOLOGIES	WS-203	145	1,700.00	7021
51692	406	COMPUTER	PENTIUM TOWER	9700095854	PREMIO TECHNOLOGIES	WS-460	000	1,700.00	7021
51767	221	COMPUTER	P5200	9700136462	PREMIO TECHNOLOGIES	WS-203	111	1,700.00	7021
02892	227	BOROSCOPE	84580AF	58154	STORZ KARL ENDOSCOPY-AMERICA	WS-200	163	1,700.00	6650
52066	219	COMPUTER	PENTIUM	2665181	MIDWEST MICRO	WS-800	CTRL	1,703.00	7021
36343	223	WELD HEAD	CWS20H-A	80.024	CAJON CO	WS-801	000	1,711.00	3431
50995	306	PRINTER, ADP	C3917A	JPHK040871	HEWLETT-PACKARD CO BOISE DIV	WS-362	000	1,722.00	7025
50996	8	PRINTER, ADP	C3917A	JPHK040952	HEWLETT-PACKARD CO BOISE DIV	WS-364	000	1,722.00	7025
50997	406	PRINTER, ADP	C3917A	JPHK040961	HEWLETT-PACKARD CO BOISE DIV	WS-463	102	1,722.00	7025
50998	406	PRINTER, ADP	C3917A	JPHK040895	HEWLETT-PACKARD CO BOISE DIV	WS-463	105	1,722.00	7025
30847	115	PRINTER, ADP	LASERJET 4100	USBNH06968	HEWLETT PACKARD CO DIS	WS-113	SHOP	1,729.00	7025
30637	420	PRINTER, ADP	4050TN	USCF038930	HEWLETT PACKARD CO DIS	WS-300	105	1,730.00	7025
31072	214	COMPUTER	DIMENSION 4500	9BQZR11	DELL COMPUTER CORP F-PC'S LTD	WS-201	139	1,744.00	7021
25364	237	OSCILLOSCOPE BATTERY-OPERATED	221	B057357	TEKTRONIX INC	WS-800	HPTA	1,745.00	6625
31792	5	COMPUTER	OPTIPLEX GX270	7WVC851	DELL COMPUTER CORP F-PC'S LTD	WS-201	121	1,746.00	7021
31655	219	COMPUTER	PRECISION 360	4C3GN41	DELL COMPUTER CORP F-PC'S LTD	WS-201	120	1,749.00	7021
30743	231	SCANNER, HANDHELD	FALCON320	F301208047	PERCOM DATA CORP	WS-200	166	1,750.00	7025
38221	201	COUNTER/TIMER	5334B	A02294	HEWLETT-PACKARD CO	WS-203	108	1,755.00	6625
25075	207	COUNTER, FREQUENCY	5233L	544--02302	HEWLETT-PACKARD CO	WS-205	000	1,757.00	6625
50895	215	PRINTER, ADP	C3917A	USHC112181	HEWLETT-PACKARD CO BOISE DIV	WS-203	108	1,759.00	7025
31749	230	COMPUTER	OPTIPLEX GX270	837C351	DELL COMPUTER CORP F-PC'S LTD	WS-201	000	1,761.00	7021

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
41203	305	POWER SUPPLY	6268B	2438A06762	HEWLETT-PACKARD CO	WS-300	BKR2	1,762.00	6130
41205	201	POWER SUPPLY	6268B	2438A06771	HEWLETT-PACKARD CO	WS-203	108	1,762.00	6130
30496	831	SCALE, BALANCE	PB30002-S	1118241371	METTLER INSTRUMENT CORP	WS-803	000	1,765.00	6670
51460	406	PRINTER, ADP	C3917A	JPLF005435	HEWLETT-PACKARD CO BOISE DIV	WS-463	103	1,770.00	7025
51911	243	COMPUTER	PENTIUM 200	NONE	CIRCUIT SPECIALISTS INC	WS-800	000	1,783.00	7021
02506	803	COPIER	DOCUCOLOR 12	FU2003815	XEROX CORP	WS-201	103	1,783.00	7025
23871	304	OSCILLOSCOPE PORTABLE	455A2/B2	B056145	TEKTRONIX INC	WS-300	107	1,790.00	6625
31472	216	LENS, CAMERA	NIKKOR 70-200MM	217451	NIKON CORP	WS-200	109	1,790.00	6760
31473	216	LENS, CAMERA	NIKKOR 70-200MM	217448	NIKON CORP	WS-200	204	1,790.00	6760
31474	216	LENS, CAMERA	NIKKOR 70-200MM	217450	NIKON CORP	WS-200	110	1,790.00	6760
31475	216	LENS, CAMERA	NIKKOR 70-200MM	217449	NIKON CORP	WS-200	109	1,790.00	6760
31476	216	LENS, CAMERA	NIKKOR 70-200MM	217447	NIKON CORP	WS-200	204	1,790.00	6760
02854	243	METER SCOPE	96B	DM7050322	FLUKE	WS 201	105	1,795.00	6625
42760	223	HOLDING FIXTURE ASSEMBLY	T7520535	91040902	FAIRCHILD CTL SYS F-STRATOS DV	WS-201	136B	1,800.00	4960
51730	221	COMPUTER	MTP5E	9700147155	PREMIO TECHNOLOGIES	WS-203	147	1,800.00	7021
51733	221	COMPUTER	MTP5E	9700147154	PREMIO TECHNOLOGIES	WS-200	128	1,800.00	7021
551824	834	COMPUTER	PENTIUM 200	2593812	MIDWEST MICRO	WS-201	103	1,800.00	7021
930231	230	ALARM DIALING MONITOR	SERIES VSS	V09535	RACO MFG INC	WS-200	139	1,800.00	6350
930733	170	SET, BORE GAUGE	FOB-63020-E	54363020	FOWLER MFG CO	WS-113	121	1,800.00	5220
018726	201	SAMPLING HEAD	S6	B045279	TEKTRONIX INC	WS-203	108	1,805.00	6625
018727	201	SAMPLING HEAD	S6	B045280	TEKTRONIX INC	WS-203	108	1,805.00	6625
329846	201	HEAD PULSE GENERATOR	S52	B103842	TEKTRONIX INC	WS-203	108	1,805.00	6625
329847	201	HEAD PULSE GENERATOR	S52	B103845	TEKTRONIX INC	WS-203	108	1,805.00	6625
329289	242	POWER SUPPLY 2 CHANNEL	2807	1357009	BRUEL AND KJAER INSTRUMENTS	WS-201	STORG	1,810.00	6625
324698	209	INDICATOR PRESSURE 100 PSIG	710B	S79583	DRESSER INDUSTRIES INC	WS-203	133	1,815.00	6685
931820	219	PROJECTOR	PT-LBIOU	SE4330002	PANASONIC	WS-201	103A	1,819.00	6730
930766	222	PRINTER, ADP	5000N	USB3010153	HEWLETT PACKARD CO DIS	WS-201	119	1,825.00	7025
235685	405	PRINTER, ADP	C2021A	JPBG024198	HEWLETT-PACKARD CO	WS-400	101	1,826.00	7025
930735	170	DETECTIVE DRIVE UNIT	SJ-201	178951A	MITUTOYO	WS-113	121	1,830.00	5220
551390	227	PUMP, VACUUM	1402B-01	NONE	WELCH VACUUM TECHNOLOGIES INC	WS-200	PRTBL	1,840.00	4310
930131	221	COMPUTER	MTP6C	9800056938	PREMIO TECHNOLOGIES	WS-200	143	1,845.00	7021
931003	115	MICROSCOPE	STEREOZOOM4	818-998-2702	MC BAIN CORP	WS-113	SHOP	1,847.00	6650
446427	214	SPECTROMETER, FIBER OPTIC	S1000	S1E528	OCEAN OPTICS INC	WS-201	135	1,850.00	6630
551026	221	PRINTER, ADP	C3917A	USHC113503	HEWLETT-PACKARD CO BOISE DIV	WS-203	147	1,850.00	7025
235714	237	COMPUTER	486/33M	6306HBN20261	COMPAQ COMPUTER CORP	WS-203	130	1,853.00	7021
235950	221	COMPUTER	486/33M	3325HBN20267	COMPAQ COMPUTER CORP	WS-203	146	1,853.00	7021
235952	237	COMPUTER	486/33M	3325HBN20223	COMPAQ COMPUTER CORP	WS-800	HFTA	1,853.00	7021
236242	252	CAMERA	WV-CS304	2XB07688	PANASONIC	WS-200	800A	1,854.00	5836
446192	252	CONTROL UNIT, CAMERA	GPKS162CU	51B05446	PANASONIC	WS-200	110A	1,857.00	6710
236276	252	PAN-TILT UNIT	PT1260EX	43064E	PELCO SALES INC	WS-200	203A	1,860.00	5820
236277	252	PAN-TILT UNIT	PT1260EX	43124E	PELCO SALES INC	WS-200	203A	1,860.00	5820
325182	209	INDICATOR PRESSURE DIGITAL	710B-0/500	S7-5958	DRESSER IND/HEISE PLANT F-IND-	WS-203	138	1,870.00	6685
325183	209	INDICATOR PRESSURE DIGITAL	710-0/1000	S7-5959	DRESSER IND/HEISE PLANT F-IND-	WS-203	134	1,870.00	6685
446266	221	PRINTER, ADP	C2039A	JPGK077932	HEWLETT-PACKARD CO	WS-203	124	1,870.00	7025
838038	201	DISK DRIVE UNIT	9153	2732A11604	HEWLETT-PACKARD CO	WS-203	108	1,873.00	7025
329617	407	RECORDER VIDEO CASSETTE	NV-8950	B8TC00074	PANASONIC	WS-300	114A	1,875.00	5836
329618	407	RECORDER VIDEO CASSETTE	NV-8950	B8TC00020	PANASONIC	WS-300	114A	1,875.00	5836
446178	220	PRINTER, ADP	C2039A	JPGL085482	HEWLETT-PACKARD CO BOISE DIV	WS-203	000	1,885.00	7025
295570	221	PRINTER, ADP	C2039A	JPGK046602	HEWLETT-PACKARD CO BOISE DIV	WS-200	136B	1,886.00	7025
295657	306	PRINTER, ADP	C2039A	JPGK046544	HEWLETT-PACKARD CO BOISE DIV	WS-320	000	1,886.00	7025
018721	201	PLUG IN SAMPLING UNIT	7S11	B149387	TEKTRONIX INC	WS-203	108	1,895.00	6625
018722	201	PLUG IN SAMPLING UNIT	7S11	B149350	TEKTRONIX INC	WS-203	108	1,895.00	6625
235658	8	PRINTER, ADP	C2021D	USBC015661	HEWLETT-PACKARD CO	WS-364	000	1,895.00	7025

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
95519	227	CALIBRATOR	130	13044	BETA PRODUCTS INC	WS-200	CTF	1,895.00	6625
51822	224	PLOTTER, X Y	1100	7128054	GRAPHTEC CORP	WS-200	POVCR	1,895.00	7025
51223	224	POWER SUPPLY	ATE36-8DM	F56723	KEPCO INC	WS-200	LABCN	1,897.00	6130
95625	221	PRINTER, ADP	C2039A	JPGL037523	HEWLETT-PACKARD CO BOISE DIV	WS-203	146	1,899.00	7025
95633	231	PRINTER, ADP	C2039A	JPGK064770	HEWLETT-PACKARD CO BOISE DIV	WS-802	104	1,899.00	7025
27859	252	CAMERA, VIDEO, COLOR	GX-5	11160179	VICTOR CO OF JAPAN	WS-200	100A	1,900.00	5820
35919	237	COMPUTER	4DX33V	1455356	GATEWAY COMPANIES INC	WS-800	208	1,900.00	7021
51336	222	COMPUTER	PENTIUM MIDTOWER	9700050488	PREMIO TECHNOLOGIES	WS-201	139	1,900.00	7021
36444	237	COMPUTER	BABYAT	2484128	GATEWAY COMPANIES INC	WS-800	832	1,902.00	7021
26172	834	PRINTER, ADP	TI810RO	2481510183	TEXAS INSTRUMENT DIGITAL SYS	WS-252	000	1,905.00	7025
30262	831	COMPUTER	PENTIUMII 450	3125908	MIDWEST MICRO	WS-800	832	1,905.00	7021
02809	405	SCOPE METER	99B	DM6590173	FLUKE CORP	WS-400	101	1,915.00	6625
02810	405	SCOPE METER	99B	DM6590219	FLUKE CORP	WS-300	115	1,915.00	6625
02811	227	SCOPE METER	99B	DM6640203	FLUKE CORP	WS-200	CTF	1,915.00	6625
31061	305	COMPUTER	OPTIPLEX GX260T	75ZFR11	DELL COMPUTER CORP F-PC'S LTD	WS-310	000	1,928.00	7021
39154	201	HEAD PULSE GENERATOR	S52	B104057	TEKTRONIX INC	WS-203	108	1,930.00	6625
02891	227	MICROSCOPE	NONE	7387K	GAERTNER SCIENTIFIC CORP	WS-200	CTF	1,938.00	6650
31470	222	COMPUTER	PRECISION 360	5D09B31	DELL COMPUTER CORP F-PC'S LTD	WS-201	119	1,941.00	7021
24746	210	DETECTOR NULL D-C	9828-2A	1893179	LEEDS AND NORTHRUP CO	WS-203	143	1,948.00	6625
51322	224	POWER SUPPLY	ATE36-8DM	F56711	KEPCO INC	WS-200	POVCR	1,949.00	6130
35961	214	SCOPEMETER	97	9.444E+11	FLUKE CORP	WS-201	134	1,950.00	6625
36016	201	SCOPEMETER	97	DM5840495	FLUKE CORP	WS-203	108	1,950.00	6625
30275	306	COMPUTER	PENTIUMPIII	31875	MICROSYSTEMS DEVELOPMENT CORP	WS-362	000	1,950.00	7021
39741	261	COMPUTER	LTE286	NONE	COMPAQ COMPUTER CORP	WS-638	000	1,959.00	7021
31597	243	COMPUTER	INSPIRON 5150	71WX541	DELL COMPUTER CORP F-PC'S LTD	WS-201	000	1,960.00	7021
50728	239	COMPUTER	PENTIUM TOWER	P9603033	PREMIO TECHNOLOGIES	WS-201	139	1,966.00	7021
95700	231	PRINTER, ADP	C2039A	JPGK118807	HEWLETT-PACKARD CO BOISE DIV	WS-200	MZ2	1,967.00	7025
46135	306	PRINTER, ADP	C2039A	JPGL075964	HEWLETT-PACKARD CO BOISE DIV	WS-310	000	1,967.00	7025
51950	209	COMPUTER	XIPIIMTOWER	12857	XI COMPUTER CORP.	WS-203	133	1,972.00	7021
51953	210	COMPUTER	XIPIIMTOWER	12852	XI COMPUTER CORP.	WS-203	145	1,972.00	7021
29160	243	POWER SUPPLY	SRL-40-25	2142	SORENSON INDUSTRIES INC	WS-700	CTRL	1,975.00	6130
30057	210	TRANSMITTER UNIT W/SENSOR	IFT9701R1N3U	358013	MICROMOTION INC	WS-203	138	1,975.00	6625
30561	222	COMPUTER	GX110	492C201	DELL COMPUTER CORP F-PC'S LTD	WS-201	118	1,978.00	7021
30837	831	PRINTER, ADP	LASERJET 5000N	JPB3092921	HEWLETT PACKARD CO DIS	WS-803	101	1,980.00	7025
95537	221	PRINTER, ADP	C2039A	JPGL031251	HEWLETT-PACKARD CO BOISE DIV	WS-203	146	1,984.00	7025
36442	221	PRINTER, ADP	C2039A	JPGJ001332	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	1,985.00	7025
50506	226	CALIBRATOR, HAND-HELD	PTE1	1849	HEISE SEE DRESSER INDUSTRIES	WS-462	000	1,985.00	6625
95479	225	PRINTER, ADP	C2039A	JPGK012269	HEWLETT-PACKARD CO BOISE DIV	WS-201	112	1,986.00	7025
95554	219	PRINTER, ADP	C2039A	JPGL031784	HEWLETT-PACKARD CO BOISE DIV	WS-201	113	1,990.00	7025
35817	243	COMPUTER	4/66M20	A317HEV30775	COMPAQ COMPUTER CORP	WS-201	105	1,995.00	7021
35820	221	COMPUTER	4/66M20	A317HEV30631	COMPAQ COMPUTER CORP	WS-203	141	1,995.00	7021
46259	221	COMPUTER	486LP	A05435708	INTEL SCIENTIFIC COMPUTERS	WS-200	128	1,995.00	7021
51052	231	PRINTER, ADP	C3541A	USB6722075	HEWLETT-PACKARD CO BOISE DIV	WS-200	WZ2	1,995.00	7025
02881	231	SCANNER, PORTABLE	FALCON	F0009196	PERCON ACQUISITION INC	WS-200	CTF	1,995.00	7025
36361	222	PRINTER, ADP	C2001A	JPBX033483	HEWLETT-PACKARD CO BOISE DIV	WS-201	118	1,998.00	7025
30423	214	METER, FLUXGATE	FGM-4D2N	3875	WALKER SCIENTIFIC F-MAGNION	WS-203	000	1,998.00	6630
30025	831	COMPUTER	PA1273U	88973772A	TOSHIBA AMERICA INC	WS-803	000	1,999.00	7021
27233	252	CAMERA, VIDEO	TC2811	227345	RCA CORP INFO SYS DIV	WS-200	100A	2,000.00	5820
72769	405	TAPE SEARCH AND CONTROL UNIT	9241	321	DATUM INC F-PERIPH. INTERFACE	WS-400	101A	2,000.00	6625
39702	406	DISPLAY UNIT	5531	65891051	INDUSTRIAL DATA SYSTEMS INC	WS-400	BLKHS	2,000.00	7025
36188	209	COMPUTER	UNKNOWN	8255	NGS ASSOCIATES INC	WS-203	137	2,000.00	7021
46173	221	COMPUTER	MINIDESKTOP	3425925	GATEWAY COMPANIES INC	WS-203	146	2,000.00	7021
46184	221	COMPUTER	NEWTOWER	3489042	GATEWAY COMPANIES INC	WS-203	146	2,000.00	7021

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Nation Stock #	Document Control #
46369	221	COMPUTER	2700	NONE	PC CRAFT INC	WS-200	138A	2,000.00	7021
46411	237	COMPUTER	BABYAT	3972625	GATEWAY COMPANIES INC	WS-800	HFTA	2,000.00	7021
51728	115	COMPUTER	PENTIUM 133	2035069	MAGITRONIC TECHNOLOGY INC	WS-113	SHOP	2,000.00	7021
30117	214	COMPUTER	PENTIUM II	2727254	MIDWEST MICRO	WS-203	111	2,000.00	7021
30178	231	COMPUTER	PENTIUM400	30786	MICROSYS AUTOMATION INC	WS-200	MZ2	2,000.00	7021
30179	231	COMPUTER	PENTIUM400	30784	MICROSYS AUTOMATION INC	WS-200	MZ1	2,000.00	7021
30554	420	COMPUTER	GX110	BVQ3201	DELL COMPUTER CORP F-PC'S LTD	WS-101	212	2,000.00	7021
51369	227	MACRO VIDEO SYSTEM	MVS	NONE	EDMUND SCIENTIFIC CO	WS-200	136B	2,004.00	5895
30408	250	VIDEOMIXER, DIGITAL	MXPROD	403088	VIDEONICS INC	WS-200	203	2,004.00	5836
929995	226	SCANNER HYDRAZINE	4154A	815761	INTERSCAN CORP	WS-300	114	2,005.00	6665
929996	226	SCANNER HYDRAZINE	4154A	815762	INTERSCAN CORP	WS-300	114	2,005.00	6665
931537	218	COMPUTER	GX270	D2C1R31	DELL COMPUTER CORP F-PC'S LTD	WS-200	117	2,006.00	7021
931538	218	COMPUTER	GX270	92C1R31	DELL COMPUTER CORP F-PC'S LTD	WS-200	000	2,006.00	7021
931539	218	COMPUTER	GX270	23C1R31	DELL COMPUTER CORP F-PC'S LTD	WS-200	210	2,006.00	7021
703634	211	METER, POWER	436A	2008A06696	HEWLETT-PACKARD CO	WS-203	108	2,025.00	6625
295545	227	CALIBRATOR, TEMPERATURE	230	13078	BETA PRODUCTS INC	WS-200	CTF	2,025.00	6685
931448	420	COMPUTER	LATITUDE D400	JFVBB31	DELL COMPUTER CORP F-PC'S LTD	WS-101	212	2,027.00	7021
235930	221	COMPUTER	486/33M	6249HBN20541	COMPAQ COMPUTER CORP	WS-200	128	2,030.00	7021
235932	240	COMPUTER	486/33M	6249HBN20561	COMPAQ COMPUTER CORP	WS-200	105	2,030.00	7021
551726	115	SCANNER	E3	72S0132484	MICROTEK INTERNATIONAL INC	WS-113	SHOP	2,030.00	7025
235923	406	COMPUTER	LTE LITE25	3325HBG40092	COMPAQ COMPUTER CORP	WS-462	000	2,034.00	7021
236077	5	COMPUTER	486/33M	6249HBN20490	COMPAQ COMPUTER CORP	WS-200	135A	2,035.00	7021
931303	115	PROJECTOR	XD-15C	99J2477X31252060	MEDIAPILE AV TECH/BOXLIGHT COR	WS-113	SHOP	2,035.00	6730
329945	215	DISPLAY UNIT	98785A	2633J00722	HEWLETT-PACKARD CO	WS-203	108	2,046.00	7025
329084	201	OSCILLOSCOPE WIDE PERFORMANCE	7603	342754	TEKTRONIX INC	WS-203	108	2,050.00	6625
329539	201	OHMMETER DIGITAL LOW RESISTANC	247000	12790	AVO BIDDLE INSTRUMENTS FMLY	WS-203	108	2,050.00	6625
931501	219	COMPUTER	470054-655	CNU33505NW	COMPAQ COMPUTER CORP	WS-201	120	2,061.00	7021
324479	201	BRIDGE, CAPACITANCE	1615A	710	GENRAD INC EMT ELECTRONIC TEST	WS-203	108	2,065.00	6625
550754	252	PAN-TILT UNIT	PT1260EX	NONE	PELCO SALES INC	WS-200	203A	2,070.00	5820
236443	803	PRINTER, ADP	C2039A	JPGJ002360	HEWLETT-PACKARD CO BOISE DIV	WS-201	139	2,076.00	7025
236445	832	PRINTER, ADP	C2039A	JPGJ002481	HEWLETT-PACKARD CO BOISE DIV	WS-252	000	2,076.00	7025
931665	242	COMPUTER	OPTIPLEX GX270	CGMJN41	DELL COMPUTER CORP F-PC'S LTD	WS-201	114	2,079.00	7021
552113	242	COMPUTER	333MHZ	9800098752	PREMIO TECHNOLOGIES	WS-201	114	2,080.00	7021
931421	223	PROJECTOR	VPL-CX5	22092	SONY CORP	WS-201	000	2,083.00	6730
838609	220	COMPUTER	286E	4930HZ3H3425	COMPAQ COMPUTER CORP	WS-203	STORA	2,089.00	7021
236344	237	COMPUTER	BABYAT	2310574	GATEWAY COMPANIES INC	WS-800	208	2,089.00	7021
930792	8	COMPUTER	PP01X	7256V01	DELL COMPUTER CORP F-PC'S LTD	WS-364	000	2,090.00	7021
324224	216	CAMERA	MP-4	L45243	POLAROID CORP	WS-800	118A	2,091.00	6720
930252	831	COMPUTER	PENTIUM 500	31753	MICROSYSTEMS DEVELOPMENT CORP	WS-803	000	2,091.00	7021
931763	304	TERMINAL DISPLAY	GB200	421N818W548	OPTO-22	WS-300	000	2,095.00	7025
931764	405	TERMINAL DISPLAY	GB200	421N813W548	OPTO-22	WS-400	000	2,095.00	7025
295541	237	COMPUTER	P4D66	2790534	GATEWAY COMPANIES INC	WS-800	HFTA	2,100.00	7021
295542	237	COMPUTER	P4D66	2790533	GATEWAY COMPANIES INC	WS-831	000	2,100.00	7021
295543	237	COMPUTER	P4D66	2790535	GATEWAY COMPANIES INC	WS-203	130	2,100.00	7021
551602	306	COMPUTER	PENTIUM TOWER	9700089299	PREMIO TECHNOLOGIES	WS-300	BLKHO	2,100.00	7021
930277	406	COMPUTER	PENTIUMIII	31871	MICROSYSTEMS DEVELOPMENT CORP	WS-300	BLK	2,100.00	7021
930279	231	COMPUTER	PENTIUMIII	31873	MICROSYSTEMS DEVELOPMENT CORP	WS-200	MZ2	2,100.00	7021
930284	408	COMPUTER	NONE	31951	MICROSYSTEMS DEVELOPMENT CORP	WS-462	101	2,100.00	7021
930290	242	COMPUTER	NONE	31919	MICROSYSTEMS DEVELOPMENT CORP	WS-201	114	2,100.00	7021
839258	201	METER, FIELD STRENGTH	FS73	6033571M	SENCORE INC	WS-203	108	2,108.00	6625
807829	407	LENS	HDF	NONE	INFINITY PHOTO-OPTICAL	WS-300	114	2,115.00	6760
551997	237	COMPUTER	P-333	2655326	MIDWEST MICRO	WS-800	HFTA	2,123.00	7021
323778	407	RECORDER VIDEO CASSETTE	VO-5600/RX-303	24836	SONY CORP	WS-200	100	2,127.00	5835

This list is current as of the release date of the RFP

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Nation. Stock #	Document Control #
05813	239	PRINTER, ADP	XL300	3205A10672	HEWLETT-PACKARD CO	WS-201	136	2,129.00	7025
05431	834	DISPLAY UNIT	JC2002VMA1	1XD00776S	NEC ELECTRONICS USA INC	WS-252	000	2,135.00	7025
36228	240	PRINTER, ADP	C2021A	JPBG098211	HEWLETT-PACKARD CO	WS-200	105	2,144.00	7025
31661	252	COMPUTER	INSPIRION 5150	C82XM41	DELL COMPUTER CORP F-PC'S LTD	WS-200	PHOTO	2,144.00	7021
30380	221	COMPUTER, LAPTOP	LATITUDE	VN7PN	DELL COMPUTER CORP F-PC'S LTD	WS-200	135	2,146.00	7021
39858	255	DISPLAY UNIT	JC2002VMA1	16C00071S	NEC ELECTRONICS USA INC	WS-252	000	2,147.00	7025
31594	406	COMPUTER	GX270	3FZ7941	DELL COMPUTER CORP F-PC'S LTD	WS-400	VCONT	2,147.00	7021
31692	231	COMPUTER	INSPIRON 600	B8TKR41	DELL COMPUTER CORP F-PC'S LTD	WS-200	BOND	2,159.00	7021
35554	237	COMPUTER	486/33M	6254HBN20632	COMPAQ COMPUTER CORP	WS-800	HPTA	2,164.00	7021
35583	237	COMPUTER	486/33M	6250HBN20585	COMPAQ COMPUTER CORP	WS-201	103	2,164.00	7021
35606	243	COMPUTER	486/33M	6304HBN20719	COMPAQ COMPUTER CORP	WS-201	136	2,164.00	7021
35625	242	COMPUTER	486/33M	6306HBN20282	COMPAQ COMPUTER CORP	WS-800	CONTR	2,164.00	7021
931407	406	COMPUTER	LATITUDE C840	CPK0331	DELL COMPUTER CORP F-PC'S LTD	WS-463	000	2,164.00	7021
930730	306	COMPUTER, LAPTOP	PP01X	131NP01	DELL COMPUTER CORP F-PC'S LTD	WS-362	000	2,167.00	7021
005604	221	PRINTER, ADP	33449A	3140A00568	HEWLETT-PACKARD CO	WS-200	STORG	2,168.00	7025
931490	305	COMPUTER	INSPIRON 5150	D9ZGF31	DELL COMPUTER CORP F-PC'S LTD	WS-363	000	2,168.00	7021
551055	406	DISPLAY UNIT	C2192P	FC6132454	GATEWAY COMPANIES INC	WS-400	BLK	2,172.00	7025
551370	223	BORESCOPE	7002-07012	202640	LENOX INSTRUMENT CO INC	WS-801	000	2,175.00	6650
931366	831	COMPUTER	INSPIRION 600	68QRT21	DELL COMPUTER CORP F-PC'S LTD	WS-803	000	2,175.00	7021
931075	217	COMPUTER	PPO	9NWXR11	DELL COMPUTER CORP F-PC'S LTD	WS-203	127	2,178.00	7021
931317	219	COMPUTER	INSPIRON 8200	1WCSF21	DELL COMPUTER CORP F-PC'S LTD	WS-201	000	2,181.00	7021
930725	406	COMPUTER, LAPTOP	PP01X	GY2WN01	DELL COMPUTER CORP F-PC'S LTD	WS-462	101	2,182.00	7021
703696	201	TIME BASE PLUG IN	7B92A	B088904	TEKTRONIX INC	WS-203	108	2,187.00	6625
703697	201	TIME BASE PLUG IN	7B92A	B089252	TEKTRONIX INC	WS-203	108	2,187.00	6625
654738	227	BOROSCOPE	84584AF 0-DEGREES	64928	KARL STORZ	WS-200	163	2,191.00	6650
295639	231	PRINTER, ADP	C2039A	JPGL022063	HEWLETT-PACKARD CO BOISE DIV	WS-WNHB	000	2,194.00	7025
550559	252	CAMERA, VIDEO	WVCS304	5ZB22733	MATSUSHITA ELECTRIC	WS-200	800A	2,195.00	5820
550856	227	OSCILLOSCOPE	97	DM6440219	FLUKE CORP	WS-200	CTF	2,195.00	6625
551448	832	BATH, WATER	DC3	196015676/028	HAAKE GEBRUEDER KG	WS-200	T-241	2,195.00	6685
930609	242	DISPLAY UNIT	LMV10XN	298755	CYBER RESEARCH INC	WS-800	861	2,195.00	7025
.931449	406	COMPUTER	INSPIRON 8500	F9GGB31	DELL COMPUTER CORP F-PC'S LTD	WS-463	000	2,195.00	7021
772790	405	OSCILLOSCOPE PORT W/BATT PACK	455A2B2	B055457	TEKTRONIX INC	WS-400	106	2,198.00	6625
772792	304	OSCILLOSCOPE PORT W/BATT PACK	455A2B2	B055453	TEKTRONIX INC	WS-300	114A	2,198.00	6625
.551035	242	COMPUTER	P5-166	60063576	INFOTEL INC	WS-201	105	2,200.00	7021
.931244	221	SCALE, BALANCE	AG104	1121432679	METTLER INSTRUMENT CORP	WS-200	144	2,200.00	6670
.931580	115	COMPUTER	GX270	H2OM341	DELL COMPUTER CORP F-PC'S LTD	WS-113	000	2,205.00	7021
839387	407	LENS	HDF-V	NONE	INFINITY PHOTO-OPTICAL	WS-400	BASE	2,215.00	5820
931522	115	COMPUTER	GX270	BRJSN31	DELL COMPUTER CORP F-PC'S LTD	WS-113	000	2,224.00	7021
235811	408	TERMINAL, DATA PROCESSING	4860A	379817-4E3	XYCOM INC	WS-300	101	2,225.00	7025
839958	250	RECORDER/PLAYER CASSETTE VIDEO	AG7450	H1TA00045	PANASONIC	WS-200	100	2,229.00	5836
930608	243	GENERATOR DIGITAL TIME DELAY	9650A	27102	EG&G INSTRUMENTS	WS-272	000	2,231.00	6115
931523	306	COMPUTER	GX270	GPTXN31	DELL COMPUTER CORP F-PC'S LTD	WS-363	000	2,231.00	7021
323489	407	RECORDER VIDEO CASSETTE	VO-5600	13905	MATSUSHITA ELEC INDUS CO	WS-300	114A	2,236.00	5820
323490	407	RECORDER VIDEO CASSETTE	VO-5600/RX-303	13049	SONY CORP	WS-400	BASE	2,236.00	5820
931402	219	COMPUTER	LATITUDE C640	F45DZ21	DELL COMPUTER CORP F-PC'S LTD	WS-201	103A	2,243.00	7021
931403	221	COMPUTER	LATITUDE C640	H45DZ21	DELL COMPUTER CORP F-PC'S LTD	WS-200	135	2,243.00	7021
930536	216	DENSITOMETER	DENSY450E	A009974	BARBIERI ELECTRONICS	WS-200	102	2,250.00	6760
931660	219	COMPUTER	INSPIRION 5150	7F2XM41	DELL COMPUTER CORP F-PC'S LTD	WS-270	000	2,251.00	7021
930219	221	MACHINE, ICE	AFE325AE-1A	196630-10P	SCOTSMAN	WS-200	144	2,254.00	4110
931893	217	COMPUTER	LATITUDE D600	JYCYF51	DELL COMPUTER CORP F-PC'S LTD	WS-203	127	2,264.00	7021
236491	831	COMPUTER	DPXE466	6424HGY30415	COMPAQ COMPUTER CORP	WS-803	000	2,273.00	7021
327860	221	PROCESSOR RECORDING DATA	CR3A	K53003	SHIMADZU SCIENCE INSTR'S	WS-200	STORG	2,278.00	7025
295640	250	TAPE SUBSYSTEM	BEX8505XL	6186797	CO COMP INC	WS-200	100	2,285.00	7025

This list is current as of the release date of the RFP

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
51245	406	COMPUTER	ATX TOWER	6804021	GATEWAY COMPANIES INC	WS-400	BLK	2,294.00	7021
36426	221	PRINTER, ADP	C2001A	JPBX037820	HEWLETT-PACKARD CO BOISE DIV	WS-200	127	2,296.00	7025
51637	209	LATHE, LAPPING	1102075	NONE	ENCO MFG CO	WS-203	145	2,299.00	3416
30043	407	CAMERA	VC284-64	20597	VICON INDUSTRIES INC	WS-363	000	2,305.00	6760
30695	219	COMPUTER, LAPTOP	2628	78-GLKW7	IBM CANADA LTD	WS-800	HPCTR	2,320.00	7021
31608	222	COMPUTER	GX270	73VLB41	DELL COMPUTER CORP F-PC'S LTD	WS-201	119	2,322.00	7021
26965	252	PROJECTOR 16MM MARK VI	224A	1364	L-W INT'L F- L-W PHOTO PROD	WS-200	203A	2,330.00	6730
29545	305	POWER SUPPLY	DCR40-250	UNKNOWN	SORENSON CO DIV OF SWITCHCRAFT	WS-300	BKR2	2,335.00	6130
29737	201	DISK DRIVE UNIT	9153B	2647A13873	HEWLETT-PACKARD CO	WS-203	108	2,337.00	7025
29547	221	PRINTER, ADP	33440A	2803J22134	HEWLETT-PACKARD CO	WS-200	STORG	2,338.00	7025
931084	222	PRINTER, ADP	5000GN	JPC3017458	HEWLETT PACKARD CO DIS	WS-201	119	2,338.00	7025
931502	272	COMPUTER	OPTIPLEX GX270	5L21J31	DELL COMPUTER CORP F-PC'S LTD	WS-803	000	2,348.00	7021
930333	219	COMPUTER	PENTIUM500	32209	MICROSYSTEMS DEVELOPMENT CORP	WS-201	142	2,351.00	7021
583245	201	AMPLIFIER*PLUG-IN	7A19	B066115	TEKTRONIX INC	WS-203	108	2,356.00	6625
931129	221	PRINTER, ADP	5100DTN	CNBF202845	HEWLETT PACKARD CO DIS	WS-200	135	2,357.00	7025
931130	217	PRINTER, ADP	5100DTN	CNBF204432	HEWLETT PACKARD CO DIS	WS-203	127	2,357.00	7025
931249	115	PRINTER, ADP	4600	JPBKB08091	HEWLETT PACKARD CO DIS	WS-113	SHOP	2,360.00	7025
931935	242	COMPUTER	GX270	11B9K51	DELL COMPUTER CORP F-PC'S LTD	WS-200	137	2,366.00	7021
931333	115	COMPUTER	LATITUDE C840	B4GBM21	DELL COMPUTER CORP F-PC'S LTD	WS-113	FAB	2,369.00	7021
931291	231	PRINTER, ADP	4600	JPBKC33104	HEWLETT PACKARD CO DIS	WS-200	MZ319	2,381.00	7025
931334	406	COMPUTER	LATITUDE C400	1W4XL21	DELL COMPUTER CORP F-PC'S LTD	WS-363	000	2,382.00	7021
551529	407	COMPUTER	LP MINITOWER	7690584	GATEWAY COMPANIES INC	WS-400	105	2,383.00	7021
930196	218	COMPUTER	XPS T450	3C53A	DELL COMPUTER CORP F-PC'S LTD	WS-200	116	2,385.00	7021
931739	222	COMPUTER	LATITUDE D600	9QYJY41	DELL COMPUTER CORP F-PC'S LTD	WS 201	119	2,390.00	7021
551741	220	BALANCE	PR203	1115431526	METTLER INSTRUMENT CORP	WS-203	131	2,396.00	6670
551914	221	PH METER	MP220	49672	METTLER TOLEDO	WS-200	136	2,396.00	6630
931441	219	COMPUTER	PRECISION 360	F2PDB31	DELL COMPUTER CORP F-PC'S LTD	WS-201	103A	2,397.00	2397
236261	230	COMPUTER	DPXE466	6413HGY40628	COMPAQ COMPUTER CORP	WS-201	139C	2,400.00	7021
236282	5	COMPUTER	DPXE450	6351HGX50127	COMPAQ COMPUTER CORP	WS-201	133	2,400.00	7021
236289	221	COMPUTER	DPXE450	6353HGX50127	COMPAQ COMPUTER CORP	WS-200	136	2,400.00	7021
236310	221	COMPUTER	DPXE450	6351HGX50326	COMPAQ COMPUTER CORP	WS-203	146	2,400.00	7021
236313	242	COMPUTER	DPXE450	6412HGX10120	COMPAQ COMPUTER CORP	WS-272	NNBK	2,400.00	7021
236331	237	COMPUTER	DPXE450	6412HGX10066	COMPAQ COMPUTER CORP	WS-800	HFTA	2,400.00	7021
236333	237	COMPUTER	DPXE450	6412HGX10098	COMPAQ COMPUTER CORP	WS-800	208A	2,400.00	7021
236362	831	COMPUTER	DPXE450	6351HGX50381	COMPAQ COMPUTER CORP	WS-803	000	2,400.00	7021
931618	252	COMPUTER	XP PRO	0932RY	DELL COMPUTER CORP F-PC'S LTD	WS-270	000	2,400.00	7021
930636	214	COMPUTER, LAPTOP	LATITUDE CPX	HWP7C01	DELL COMPUTER CORP F-PC'S LTD	WS-203	000	2,402.00	7021
329971	240	PRINTER, ADP	33440A	2805A31590	HEWLETT-PACKARD CO	WS-201	137	2,405.00	7025
930740	406	PRINTER, ADP	C41111A	JPB3091687	HEWLETT PACKARD CO DIS	WS-462	000	2,405.00	7025
005644	407	RECORDER, CASSETTE VIDEO	VO7600	13881	SONY CORP	WS-300	102	2,409.00	5836
325494	243	COUNTER, FREQUENCY	5233L	508-01367	HEWLETT-PACKARD CO	WS-700	CTRL	2,416.00	6625
235914	408	SCOPEMETER	97	9.444E+11	FLUKE CORP	WS-400	101	2,433.00	6625
931906	242	COMPUTER	GX270	56RPG51	DELL COMPUTER CORP F-PC'S LTD	WS-200	137	2,447.00	7021
931907	242	COMPUTER	GX270	H5RPG51	DELL COMPUTER CORP F-PC'S LTD	WS-200	137	2,447.00	7021
931908	242	COMPUTER	GX270	46RPG51	DELL COMPUTER CORP F-PC'S LTD	WS-200	137	2,447.00	7021
931914	242	COMPUTER	GX270	1LYPG51	DELL COMPUTER CORP F-PC'S LTD	WS-200	137	2,447.00	7021
235967	214	COMPUTER	NL25C	OXPVT	DELL COMPUTER CORP F-PC'S LTD	WS-201	111	2,449.00	7021
930240	219	COMPUTER, LAPTOP	PPI	9286C-35387-979-016	DELL COMPUTER CORP F-PC'S LTD	WS-201	120	2,455.00	7021
931588	420	COMPUTER	GX270	13LP541	DELL COMPUTER CORP F-PC'S LTD	WS-101	212	2,456.00	7021
931589	420	COMPUTER	GX270	G3LP541	DELL COMPUTER CORP F-PC'S LTD	WS-101	212	2,456.00	7021
931590	406	COMPUTER	GX270	G2LP541	DELL COMPUTER CORP F-PC'S LTD	WS-462	000	2,456.00	7021
931592	420	COMPUTER	GX270	73LP541	DELL COMPUTER CORP F-PC'S LTD	WS-101	212	2,456.00	7021
931593	420	COMPUTER	GX270	24LP541	DELL COMPUTER CORP F-PC'S LTD	WS-101	212	2,456.00	7021

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
30377	832	PRINTER,ADP	LASERJET 5000GN	USC1015675	HEWLETT-PACKARD CO BOISE DIV	WS-802	000	2,459.00	7025
30378	832	PRINTER,ADP	LASERJET 5000GN	USC1003412	HEWLETT-PACKARD CO BOISE DIV	WS-201	114	2,459.00	7025
51297	831	WATER HANDLING SYSTEM	1563EA	397	PARR INSTRUMENT CO	WS-800	116	2,460.00	6695
51054	405	COMPUTER	ATX TOWER	5687757	GATEWAY COMPANIES INC	WS-400	105	2,464.00	7021
95478	252	TRIGGER CONTROL SYSTEM, CAMERA	MD-1606ST	940920	KAPTURE GROUP INC.	WS-200	100A	2,470.00	6760
31393	406	PROJECTOR	EMP-730	EE20360058C	EPSON AMERICA INC	WS-463	104	2,474.00	6730
30566	306	COMPUTER, LAPTOP	LATITUDE CPX	1LP2301	DELL COMPUTER CORP F-PC'S LTD	WS-362	000	2,486.00	7021
39424	243	PLOTTER, GRAPHICS	7550A	2936A34281	HEWLETT-PACKARD CO	WS-201	114	2,489.00	7025
72780	304	ANALYZER, SPECTRUM	8552B	1752A13974	HEWLETT-PACKARD CO	WS-300	101	2,490.00	6625
30203	407	PAN/TILT EXPLOSION PROOF	PT1260EX	6763 8F	PELCO SALES INC	WS-300	000	2,490.00	6760
30689	214	COMPUTER, LAPTOP	LATITUDE	3TR3K01	DELL COMPUTER CORP F-PC'S LTD	WS-203	111	2,492.00	7021
51913	170	GAUGE CHECKING MACHINE	MCG1	1794404	RENISHAW INC	WS-113	113	2,496.00	6695
24485	201	CELLS STANDARD SET	9152/12	25609	GUILDLINE INSTRUMENTS LTD	WS-203	108	2,498.00	6625
30744	219	COMPUTER, LAPTOP	PCG-6122	28321730 3303253	SONY CORP	WS-201	120	2,499.00	7021
46378	221	COMPUTER	450	351415T0296	TEXAS INSTRUMENTS INC INFORMAT	WS-201	119	2,500.00	7021
51586	222	COMPUTER	PENTIUM 266	9700089296	PREMIO TECHNOLOGIES	WS-201	105	2,500.00	7021
52073	221	COMPUTER	30U	23GY997	INTERNATIONAL BUSINESS MACHINE	WS-200	128	2,500.00	7021
018723	201	PLUG IN TIME BASE	7B10	B035427	TEKTRONIX INC	WS-203	108	2,508.00	6625
930499	250	COMPUTER, LAPTOP	POWERBOOK	QT0221Z5HDR	APPLE COMPUTER INC	WS-200	203	2,524.00	7021
931662	225	COMPUTER	LATITUDE D600	CJLNM41	DELL COMPUTER CORP F-PC'S LTD	WS-201	000	2,530.00	7021
325107	221	DYNACALIBRATOR	340-11-X	M-186	MILLIVAC INSTRUMENTS INC	WS-150	00000	2,540.00	6680
838197	406	PLOTTER, GRAPHICS	7550A	2725A00848	HEWLETT-PACKARD CO	WS-400	BLK	2,549.00	7025
930501	250	RECORDER, VIDEO CASSETTE	BR-DV600U	9551033	JVC	WS-200	100	2,549.00	5836
930502	250	RECORDER, VIDEO CASSETTE	BR-DV600U	9551036	JVC	WS-200	100	2,549.00	5836
295438	158	COMPUTER	DPXE466	6423HGY33038	COMPAQ COMPUTER CORP	WS-803	000	2,550.00	7021
930194	221	COMPUTER	XPS T450	3C4VU	DELL COMPUTER CORP F-PC'S LTD	WS-200	000	2,552.00	7021
323464	201	OSCILLOSCOPE W/BATTERY PACK	455	B056628	TEKTRONIX INC	WS-203	108	2,560.00	6625
323595	405	OSCILLOSCOPE PORTABLE	455	B057096	TEKTRONIX INC	WS-400	106	2,560.00	6625
235490	217	PLOTTER, GRAPHICS	7550B	3144L05356	HEWLETT-PACKARD CO	WS-203	116	2,575.00	7025
931916	242	COMPUTER	GX270	9KVDF51	DELL COMPUTER CORP F-PC'S LTD	WS-200	137	2,577.00	7021
931919	242	COMPUTER	GX270	GJVDF51	DELL COMPUTER CORP F-PC'S LTD	WS-200	137	2,577.00	7021
931801	8	SCANNER, COLOR	DR-3080C	CC307318	CANON INC	WS-364	000	2,580.00	7025
550607	407	PAN/TILT*UNIT	PT1260EX	NONE	PELCO SALES INC	WS-300	STOR	2,582.00	5820
931711	219	COMPUTER	GX270	85JCQ41	DELL COMPUTER CORP F-PC'S LTD	WS-201	118	2,592.00	7021
931713	219	COMPUTER	GX270	84JCQ41	DELL COMPUTER CORP F-PC'S LTD	WS-201	118	2,592.00	7021
772762	408	CLOCK COUNTDOWN	9100-700	2554	DATUM INC F-PERIPH. INTERFACE	WS-400	105	2,595.00	6625
328315	221	PRINTER, ADP	33440A	2652J53423	HEWLETT-PACKARD CO	WS-203	111	2,598.00	7025
328479	831	PLOTTER, GRAPHICS	7550A	2631A52538	HEWLETT-PACKARD CO	WS-803	000	2,599.00	7025
550814	231	COMPUTER	P5-166	60044205	INFOTEL INC	WS-200	MZ1	2,600.00	7021
550830	218	COMPUTER	PENTIUM TOWER	P9603863	COMPUTER SERVICE CORP	WS-200	111	2,600.00	7021
651267	214	LENS, 25MM	322.0005.02	40494-0266	INDIGO SYSTEMS	WS-203	000	2,600.00	6760
325289	252	CAMERA MOTION PICTURE	16	11949	ARRIFLEX CORP OF AMERICA	WS-200	100A	2,613.00	6710
325290	252	CAMERA MOTION PICTURE	16	11948	ARRIFLEX CORP OF AMERICA	WS-200	100A	2,613.00	6710
837890	221	PLOTTER, GRAPHICS	7550A	2725A92938	HEWLETT-PACKARD CO	WS-200	127	2,613.00	7025
931420	219	COMPUTER	LATITUDE C400	BS7J631	DELL COMPUTER CORP F-PC'S LTD	WS-201	142	2,618.00	7021
018720	201	PLUG IN VERTICAL AMPLIFIER	7A24	B133639	TEKTRONIX INC	WS-203	108	2,622.00	6625
931581	406	COMPUTER	LATITUDE D600	9SHB341	DELL COMPUTER CORP F-PC'S LTD	WS-463	000	2,630.00	7021
325380	221	INTEGRATOR REPORTING	HP3392A	2408A01330	HEWLETT-PACKARD CO	WS-203	146	2,651.00	7025
326204	405	OSCILLOSCOPE PORTABLE	465DM44	B314285	TEKTRONIX INC	WS-400	101	2,651.00	6625
839890	305	COMPUTER	386/20E	4118HBF10462	COMPAQ COMPUTER CORP	WS-300	114A	2,659.00	7021
324363	250	RECORDER, CASSETTE	VO4800	16017	SONY CORP	WS-200	100	2,665.00	5835
931153	214	CAMERA	FMD-3DN EYE TREK	20800015	OLYMPUS OPTICAL CO LTD	WS-203	000	2,668.00	6710
295470	405	DISK DRIVE UNIT	RM400-011	9436060257	GREAT LAKES COMPUTER	WS-300	102A	2,670.00	7025

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550568	9	COMPUTER	NEW TOWER	4468157	GATEWAY COMPANIES INC	WS-400	100D	2,670.00	7021
235873	237	COMPUTER	486/33M	6318HEN20037	COMPAQ COMPUTER CORP	WS-800	HPTA	2,689.00	7021
930564	222	COMPUTER	GX110	9HKH201	DELL COMPUTER CORP F-PC'S LTD	WS-203	000	2,691.00	7021
327412	217	COMPUTER	DESKPRO	4613051B0221	COMPAQ COMPUTER CORP	WS-255	000	2,695.00	7021
236037	240	COMPUTER	486/33M	6316HEN20310	COMPAQ COMPUTER CORP	WS-201	136	2,695.00	7021
236366	214	GENERATOR PROGRAMMABLE	RC44	M6558184	BURLEIGH INSTRUMENTS INC	WS-201	134	2,695.00	6625
838501	237	PRINTER, ADP	33447A	2830J17071	HEWLETT-PACKARD CO	WS-800	208	2,697.00	7025
931716	221	COMPUTER	OPTIPLEX GX270	9FT5W41	DELL COMPUTER CORP F-PC'S LTD	WS-200	137	2,697.00	7021
235793	221	INTERFACE	970A	3125270582	NELSON P E	WS-200	136	2,700.00	7025
551270	240	COMPUTER	ATX TOWER	6962049	GATEWAY COMPANIES INC	WS-200	105	2,700.00	7021
551700	115	LENS	62MM	43280A4	MELLES GRIOT	WS-113	SHOP	2,700.00	6760
551399	227	BORESCOPE	84580CF	31652	KARL STORZ	WS-200	CTF	2,725.00	6650
329966	237	COMPUTER	2551	4826AM3B0661	COMPAQ COMPUTER CORP	WS-201	105	2,734.00	7021
446188	221	COMPUTER	NEWTOWER	3489767	GATEWAY COMPANIES INC	WS-203	146	2,734.00	7021
446189	221	COMPUTER	NEWTOWER	3489768	GATEWAY COMPANIES INC	WS-203	146	2,734.00	7021
446190	221	COMPUTER	NEWTOWER	4489769	GATEWAY COMPANIES INC	WS-150	000	2,734.00	7021
839975	221	COMPUTER	386/25E	4126HAL70201	COMPAQ COMPUTER CORP	WS-150	00000	2,735.00	7021
324053	201	OSCILLATOR,QUARTZ	107BR	33300119	HEWLETT-PACKARD CO	WS-203	108	2,750.00	6625
326665	243	OSCILLOSCOPE	475	B251477	TEKTRONIX INC	WS-700	CTRL	2,750.00	6625
838758	201	MULTIMETER	3457A	2703A09259	HEWLETT-PACKARD CO	WS-203	108	2,779.00	6625
930195	224	COMPUTER	XPS T450	3C4YA	DELL COMPUTER CORP F-PC'S LTD	WS-200	VALVE	2,779.00	7021
838869	216	CAMERA	4X5	UNKNOWN	LINHOF PRAEZISIONS-KAMERAWERK	WS-200	102	2,785.00	6720
931078	219	PROJECTOR	VPL-CX5	11801	SONY CORP	WS-201	103A	2,789.00	6730
931079	219	PROJECTOR	VPL-CX5	10902	SONY CORP	WS-201	120	2,789.00	6730
931413	8	COMPUTER	TC1000	5Y34LBQ1S112	COMPAQ COMPUTER CORP	WS-364	000	2,789.00	7021
931573	115	PROJECTOR	PG-C45X	309317981	SHARP CORP	WS-113	000	2,790.00	6730
551070	217	PRINTER, ADP	C3540A	963318	HEWLETT-PACKARD CO BOISE DIV	WS-203	123	2,800.00	7025
930001	407	COMPUTER	PENTIUMII	UNKNOWN	RACKMOUNT COMPUTERS	WS-440	000	2,805.00	7021
930302	231	COMPUTER, LAPTOP	ARMADA 3500	NONE	COMPAQ COMPUTER CORP	WS-200	NHB	2,806.00	7021
550941	218	PROCESSOR, ULTRASONIC	VCX600	23830E	SONICS AND MATERIALS	WS-200	117	2,810.00	6695
930133	221	DATALOGGER	OM-5100CE	9808-6385	OMEGA ENGINEERING INC	WS-203	146	2,830.00	7025
930134	221	DATALOGGER	OM-5100CE	9808-6381	OMEGA ENGINEERING INC	WS-203	146	2,830.00	7025
551250	213	AMPLIFIER, POWER	2706	1926786	BRUEL & KJAER A/S	WS-200	135	2,841.00	6625
930797	219	COMPUTER	PP01L	3C36V01	DELL COMPUTER CORP F-PC'S LTD	WS-201	139	2,843.00	7021
018728	201	PLUG IN TIME BASE	7B15	B035326	TEKTRONIX INC	WS-203	108	2,850.00	6625
551941	243	COMPUTER	PENTIUM III	2645626	MIDWEST MICRO	WS-201	000	2,855.00	7021
931309	115	COMPUTER	LATITUDE C840	2MLND21	DELL COMPUTER CORP F-PC'S LTD	WS-113	000	2,856.00	7021
930791	219	COMPUTER	PP01X	1VB8V01	DELL COMPUTER CORP F-PC'S LTD	WS-201	118	2,874.00	7021
930059	115	INSTRUMENT DIGITIAL READOUT	DP7	94784	NEWALL MEASURMENT	WS-113	SHOP	2,875.00	5980
0839360	304	INTERFACE, OPERATOR	4860A	PM0421-2K0	XYCOM INC	WS-300	MORGN	2,878.00	7025
0839361	304	INTERFACE, OPERATOR	4860A	PM0422-2K0	XYCOM INC	WS-300	000	2,878.00	7025
0839362	408	INTERFACE, OPERATOR	4860A	PM0420-2K0	XYCOM INC	WS-400	105	2,878.00	7025
0839130	250	PLAYER, VIDEO CASSETTE	AG7510	F0TC00073	PANASONIC	WS-200	100	2,900.00	5836
930793	214	COMPUTER	PP01L	9C16V01	DELL COMPUTER CORP F-PC'S LTD	WS-201	139	2,918.00	7021
0328915	216	CAMERA COPY	MP-4XLR	NONE	POLAROID CORP	WS-200	102	2,923.00	6720
0325232	252	LENS ZOOM 12-120 MM MODIFIED	10X12B	1088818	ANGENIEUX /ETS P/ SA	WS-200	100A	2,949.00	6760
0326630	252	LENS ZOOM 12-120 MM MODIFIED	10X12B	1072974	ANGENIEUX /ETS P/ SA	WS-200	100A	2,949.00	6760
0772959	252	LENS ZOOM 12-120 MM MODIFIED	10X12B	1094079	ANGENIEUX /ETS P/ SA	WS-700	702A	2,949.00	6760
0772970	252	LENS ZOOM 12-120 MM MODIFIED	10X12B	1072969	ANGENIEUX /ETS P/ SA	WS-200	100A	2,949.00	6760
0772971	252	LENS ZOOM 12-120 MM MODIFIED	10X12B	1094086	ANGENIEUX /ETS P/ SA	WS-200	100A	2,949.00	6760
1988043	252	CAMERA MOTION PICTURE 16MM	DBM5A	5988	TELEDYNE CAMERA SYSTEMS	WS-200	100A	2,972.00	6710
1929993	226	SCANNER HYDRAZINE	4186A	815759	INTERSCAN CORP	WS-300	114	2,977.00	6665
1930105	226	SCANNER HYDRAZINE	4186A	815760	INTERSCAN CORP	WS-400	108	2,977.00	6665

This list is current as of the release date of the RFP

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326188	407	CAMERA, TV	RGS-63VX	167	VISUAL EDUCOM OF VISUAL ELECTR	WS-300	000	2,982.00	5820
326192	407	CAMERA, VIDEO	NONE	165	DAGE-MTI INC	WS-300	000	2,982.00	5820
513576	252	CAMERA MOTION PICTURE 16MM	DBM5A	6145	TELEDYNE CAMERA SYSTEMS	WS-200	100A	2,982.00	6710
513581	252	CAMERA MOTION PICTURE 16MM	DBM5A	6148	TELEDYNE CAMERA SYSTEMS	WS-200	100A	2,982.00	6710
513582	252	CAMERA MOTION PICTURE 16MM	DBM5A	6144	TELEDYNE CAMERA SYSTEMS	WS-200	100A	2,982.00	6710
513620	252	CAMERA MOTION PICTURE 16MM	DBM5A	6149	TELEDYNE CAMERA SYSTEMS	WS-200	100A	2,982.00	6710
551896	406	COMPUTER	8120	Y80311019	DFI INC USA	WS-462	101	2,985.00	7021
551897	231	COMPUTER	8120	Y80311171	DFI INC USA	WS-200	MZ2	2,985.00	7021
551900	8	COMPUTER	8120	Y80311154	DFI INC USA	WS-364	000	2,985.00	7021
235861	237	COMPUTER	486/66M	6323HCJ40565	COMPAQ COMPUTER CORP	WS-203	130	2,990.00	7021
930911	225	COMPUTER	C-400 LAPTOP	4BM0B11	DELL COMPUTER CORP F-PC'S LTD	WS-201	112A	2,992.00	7021
326408	216	CAMERA COPY	43650	NONE	NIKON INC	WS-200	102	2,994.00	6720
326669	201	OSCILLOSCOPE	7623A	B060512	TEKTRONIX INC	WS-203	108	3,000.00	6625
551278	221	COMPUTER	D4221A	US70351008	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	3,000.00	7021
551281	221	CHILLER, RECIRCULATING	CFT75	197044198	NESLAB INSTRUMENTS INC	WS-203	124	3,000.00	6695
551563	250	COMPUTER	PENTIUM 200	27005	MICROSYS AUTOMATION INC	WS-200	203	3,000.00	7021
931469	222	COMPUTER	INSPIRON 300	85BHB31	DELL COMPUTER CORP F-PC'S LTD	WS-201	119	3,000.00	7021
326888	201	NANOVOLTMETER	181	275929	KEITHLEY INSTRUMENTS INC	WS-203	108	3,008.00	6625
930988	231	COMPUTER	LATITUDE C840	GWXLH11	DELL COMPUTER CORP F-PC'S LTD	WS-200	MEZZ3	3,013.00	7021
005821	242	COMPUTER	486/33M	6225HBN20668	COMPAQ COMPUTER CORP	WS-203	131	3,031.00	7021
515062	252	CAMERA MOTION PICTURE 16MM	DBM5C	6574	TELEDYNE CAMERA SYSTEMS	WS-200	100A	3,050.00	6710
839201	239	DISK DRIVE UNIT	RZ5X-CA	AB03501LXN	DIGITAL EQUIPMENT CORP	WS-201	136	3,052.00	7025
324476	201	VOLTAGE DEVIDER	PVD	12121	GUILDLINE INSTRUMENTS LTD	WS-203	108	3,055.00	6625
1551382	242	COMPUTER	209W	2820F	COMPAQ COMPUTER CORP	WS-201	114	3,068.00	7021
1930910	222	COMPUTER	LATITUDE C400	JNLD911	DELL COMPUTER CORP F-PC'S LTD	WS-201	113	3,082.00	7021
0175440	207	TRANSCEIVER, MOBILE	M8T43EXA7T00BK	623PMA4023	MOTOROLA INC	WS-205	000	3,090.00	5820
0328859	831	COMPUTER	2551	4728AM1B0402	COMPAQ COMPUTER CORP	WS-803	000	3,094.00	7021
0839516	218	COMPUTER	386/20E	4050HS9H0955	COMPAQ COMPUTER CORP	WS-200	LAB-C	3,095.00	7021
0328372	237	COMPUTER	2551	4712AM1B0206	COMPAQ COMPUTER CORP	WS-800	208	3,099.00	7021
1930848	231	PROJECTOR	LP290	AABT13905M	IN FOCUS INC	WS-200	MZ3	3,099.00	6730
1931621	218	COMPUTER	LATITUDE X300	4YMNB41	DELL COMPUTER CORP F-PC'S LTD	WS-200	117	3,103.00	7021
1931529	231	COMPUTER	LATITUDE X300	BZKYP31	DELL COMPUTER CORP F-PC'S LTD	WS-200	MZ3	3,139.00	7021
1931530	231	COMPUTER	LATITUDE X300	6OLYP31	DELL COMPUTER CORP F-PC'S LTD	WS-200	MZ3	3,139.00	7021
1931740	219	COMPUTER	GX270	2DSNY41	DELL COMPUTER CORP F-PC'S LTD	WS-201	113	3,147.00	7021
0839851	832	COMPUTER	386/25E	4117HAL80292	COMPAQ COMPUTER CORP	WS-800	000	3,149.00	7021
1930269	221	COMPUTER, LAPTOP	INSPIRON 7000	524-235-26	DELL COMPUTER CORP F-PC'S LTD	WS-200	135	3,150.00	7021
0327519	408	PROCESSOR VIDEO	V1513	8509H251H18	WELCH ALLYN INC	WS-400	106	3,200.00	7021
1931509	272	COMPUTER	INSPIRON 8600	1124M31	DELL COMPUTER CORP F-PC'S LTD	WS-803	000	3,214.00	7021
0513619	252	CAMERA MOTION PICTURE 16MM	DBM5A	6961-1	TELEDYNE CAMERA SYSTEMS	WS-200	100A	3,220.00	6710
0325649	205	METER WATT-HOUR	WH3-1595	A751	OHIO SEMITRONICS INC	WS-203	151	3,228.00	6625
0324071	201	OSCILLATOR RADIO FREQUENCY RAC	5245L	32500908	HEWLETT-PACKARD CO	WS-203	108	3,250.00	6625
1550899	227	PULL TESTER	MPT200A	673869	DANIELS MFG CORP	WS-200	163	3,258.00	6635
1931349	252	COMPUTER	LATITUDE C840	DLDMP21	DELL COMPUTER CORP F-PC'S LTD	WS-200	110A	3,273.00	7021
1235321	237	COMPUTER	486/33M	6231HBN50133	COMPAQ COMPUTER CORP	WS-203	130	3,281.00	7021
0329268	831	MICROSCOPE STEREO WITH ARM	STEREO 200M 7	NONE	CAMBRIDGE INSTR INC OPT SYS DV	WS-203	136	3,288.00	6650
0329468	221	COMPUTER	PORTABLE II	1745AE4B0854	COMPAQ COMPUTER CORP	WS-200	STORG	3,289.00	7021
1552128	115	INSTRUMENT,DIGITAL READOUT	2001004	98071414	ACU-RITE	WS-113	SHOP	3,295.00	5980
0513584	252	CAMERA MOTION PICTURE 16MM	DBM5C	6259	TELEDYNE CAMERA SYSTEMS	WS-200	100A	3,305.00	6710
1930783	406	COMPUTER, LAPTOP	LATITUDE	BTM5V01	DELL COMPUTER CORP F-PC'S LTD	WS-101	117	3,315.00	7021
0326836	405	OSCILLOSCOPE	475	B277877	TEKTRONIX INC	WS-400	BKR2	3,323.00	6625
1930800	8	COMPUTER	PP01L	H09GV01	DELL COMPUTER CORP F-PC'S LTD	WS-364	103	3,329.00	7021
1551705	216	CAMERA, VERTICAL	MP4	C10213A	POLAROID CORP	WS-200	102	3,340.00	6720
0839000	243	PLOTTER, GRAPHICS	7575A	2920A14715	HEWLETT-PACKARD CO	WS-201	114	3,347.00	7025

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ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio[illegible] Stock #	[illegible]ocument Control #
[illegible]38574	201	CALIBRATOR	263	441427	KEITHLEY INSTRUMENTS INC	WS-203	108	3,355.00	6625
[illegible]05749	219	COMPUTER	486/33M	6218HBN20158	COMPAQ COMPUTER CORP	WS-700	000	3,362.00	7021
[illegible]18729	201	PLUG IN VERTICAL AMPLIFIER	7A29	B039100	TEKTRONIX INC	WS-203	108	3,363.00	6625
[illegible]31791	219	COMPUTER	INSPIRON 600	JQ9N451	DELL COMPUTER CORP F-PC'S LTD	WS-201	113	3,363.00	7021
[illegible]51251	213	CALIBRATION EXCITOR	4290	1848811	BRUEL & KJAER A/S	WS-200	135	3,374.00	6625
[illegible]46293	227	DISK DRIVE UNIT	525S	114129	LION TECHNICAL SUPPORT INC	WS-200	163	3,390.00	7025
[illegible]31648	219	COMPUTER	TC1000	KRD	COMPAQ COMPUTER CORP	WS-201	000	3,399.00	7021
[illegible]26245	227	VOLTMETER DIGITAL	3455A	1622A03692	HEWLETT-PACKARD CO	WS-200	CTF	3,400.00	6625
[illegible]30098	255	ALARM DIALING MONITOR	VSS	V24-6413-0000	RACO MFG INC	WS-800	000	3,400.00	6350
[illegible]30359	222	COMPUTER, LAPTOP	PPI	Y1TXP	DELL COMPUTER CORP F-PC'S LTD	WS-201	119	3,407.00	7021
[illegible]24043	201	METER POWER	435A	1733A05644	HEWLETT-PACKARD CO	WS-203	108	3,414.00	6625
[illegible]24743	210	MEASURING SYS. PREC. RESISTNCE	242B	636014	ELECTRO SCIENTIFIC IND F-BROWN	WS-203	143	3,418.00	6625
[illegible]25485	201	MEASURING SYSTEM,PREC RESIST	242B	720007	ELECTRO SCIENTIFIC IND F-BROWN	WS-203	108	3,419.00	6625
[illegible]25477	221	LOGGER DATA	205	21193	EMERSON ELECTRIC CO DORIC	WS-203	141	3,440.00	6625
[illegible]30364	219	COMPUTER, LAPTOP	INSPIRON 700	Y1S6F	DELL COMPUTER CORP F-PC'S LTD	WS-201	103A	3,451.00	7021
[illegible]25160	207	TESTER,INTEGRATED CIRCUIT	716	411E	MICROWAVE ASSOCIATES INC	WS-205	000	3,465.00	6625
[illegible]51931	218	PROCESSOR, ULTRASONIC	TSX600	26793F`	TEKMAR CO	WS-200	143	3,478.00	6695
[illegible]39845	242	COMPUTER	386/25E	4124HAL70643	COMPAQ COMPUTER CORP	WS-272	NNBK	3,482.00	7021
[illegible]26569	407	VIDEO INSERTER 3-CHANNEL	9550-663	712	DATUM INC F-PERIPH. INTERFACE	WS-400	105	3,495.00	5820
[illegible]29743	407	INSERTER VIDEO TIME	9550-663	1414	DATUM INC F-PERIPH. INTERFACE	WS-400	105	3,495.00	5820
[illegible]29744	407	INSERTER VIDEO TIME	9550-663	1415	DATUM INC F-PERIPH. INTERFACE	WS-300	102	3,495.00	5820
[illegible]29745	407	INSERTER VIDEO TIME	9550-663	1417	DATUM INC F-PERIPH. INTERFACE	WS-300	102	3,495.00	5820
[illegible]31577	219	PROJECTOR	PLCXU60	G3Y01142	SANYO ELECTRIC CO LTD	WS-201	142	3,495.00	6730
[illegible]25070	205	VOLTMETER	8405A	1144A05916	HEWLETT-PACKARD CO	WS-203	151	3,500.00	6625
[illegible]05680	252	CAMERA HYCAM	41-0004	2834	REDLAKE IMAGING CORP	WS-200	100A	3,500.00	6710
[illegible]51648	209	REFRIGERATED CHILLER	5100	707364	POLYSCIENCE CORP	WS-203	138	3,500.00	6685
[illegible]23485	407	RECORDER VIDEO RACKMOUNT	VO-5800	18275	SONY CORP	WS-400	105	3,510.00	5820
[illegible]18725	201	PLUG IN TDR1 SAMPLER	7S12	B164493	TEKTRONIX INC	WS-203	108	3,529.00	6625
[illegible]30832	402	PROJECTOR	703	CWW1080188C	EPSON AMERICA INC	WS-300	CONFR	3,536.00	6730
[illegible]39932	221	COMPUTER	386/25E	4131HAL70212	COMPAQ COMPUTER CORP	WS-200	128	3,550.00	7021
[illegible]02840	227	BORESCOPE	86770BF	35896	KARL STORZ	WS-200	CTF	3,555.00	6650
[illegible]51465	261	CONTROLLER, PROGRAMABLE	400H	14699	QED ENVIRONMENTAL SYSTEMS INC	WS-638	000	3,565.00	6695
[illegible]39817	243	COMPUTER	386/25E	4116HAL70297	COMPAQ COMPUTER CORP	WS-700	000	3,588.00	7021
[illegible]51538	408	CALIBRATOR	743B	6880602	FLUKE CORP	WS-462	000	3,595.00	6625
[illegible]51266	214	LENS, 13MM	322.0005.01	JTI-40486-0201	INDIGO SYSTEMS	WS-203	000	3,600.00	6760
[illegible]30409	221	DATALOGGER	OM-5000	0002-8934	OMEGA ENGINEERING INC	WS-203	141	3,600.00	6625
[illegible]39796	242	COMPUTER	386/25E	4116HAL70587	COMPAQ COMPUTER CORP	WS-272	SBNK	3,624.00	7021
[illegible]29426	252	CAMERA	DBM-55	7247-1	TELEDYNE CAMERA SYSTEMS	WS-200	100A	3,630.00	6710
[illegible]13574	252	CAMERA MOTION PICTURE 16MM	DBM5B	5725	TELEDYNE CAMERA SYSTEMS	WS-200	100A	3,650.00	6710
[illegible]50957	204	COMPUTER	PC6410-71702	68008000	NEC CORP	WS-203	144	3,664.00	7021
[illegible]51258	216	CAMERA	PRO14N	P14N-08109	KODAK CANADA LTD	WS-200	109	3,699.00	6710
[illegible]06855	211	GENERATOR SIGNAL	SG504	B012910	TEKTRONIX INC	WS-203	108	3,700.00	6625
[illegible]15063	252	CAMERA MOTION PICTURE 16MM	DBM5C	6263 MOD-DBM	TELEDYNE CAMERA SYSTEMS	WS-200	100A	3,712.00	6710
[illegible]30464	404	COMPUTER	MT1440S	2000050125	PREMIO TECHNOLOGIES	WS-300	102B	3,715.00	7021
[illegible]50967	201	RADIATION METER	40	9635438	GENERAL MICROWAVE CORP	WS-203	108	3,724.00	6665
[illegible]51168	227	CAMERA, CTV	OTC5	1500048	OLYMPUS OPTICAL CO LTD	WS-200	163	3,770.00	5820
[illegible]30206	215	PROJECTOR	PT-L595U	SL8620133	MATSUSHITA ELEC INDUS CO	WS-203	000	3,775.00	7025
[illegible]46386	406	COMPUTER	NEW TOWER	3899522	GATEWAY COMPANIES INC	WS-460	000	3,800.00	7021
[illegible]31377	252	COMPUTER, SYSTEM	SC-762	23012	XI COMPUTER CORP.	WS-200	102A	3,800.00	7021
[illegible]31378	252	COMPUTER	SC-762	23013	XI COMPUTER CORP.	WS-200	101A	3,800.00	7021
[illegible]31379	252	COMPUTER	SC-762	23010	XI COMPUTER CORP.	WS-200	110A	3,800.00	7021
[illegible]31380	252	COMPUTER	SC-762	23011	XI COMPUTER CORP.	WS-200	102A	3,800.00	7021
[illegible]24676	209	INDICATOR PRESSURE DIGITAL 20K	710-B	S7-10932	DRESSER IND/HEISE PLANT F-IND-	WS-203	134	3,810.00	6685

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146140	406	COMPUTER	G1486DX250	GAU1D2681	GATEWAY COMPANIES INC	WS-362	000	3,823.00	7021
772781	304	ANALYZER, SPECTRUM	8556A	1634A03456	HEWLETT-PACKARD CO	WS-300	114A	3,833.00	6625
329483	252	CAMERA	DBM-55	7248-1	TELEDYNE CAMERA SYSTEMS	WS-200	100A	3,860.00	6710
986684	227	COMPUTER, LAPTOP	PPI	V7PZR	DELL COMPUTER CORP F-PC'S LTD	WS-120C	OHMS	3,875.00	7021
513583	252	CAMERA MOTION PICTURE 16MM	DBM5C	6446	TELEDYNE CAMERA SYSTEMS	WS-200	100A	3,918.00	6710
515061	252	CAMERA MOTION PICTURE 16MM	DBM5C	6449	TELEDYNE CAMERA SYSTEMS	WS-200	100A	3,918.00	6710
446224	237	ENCODER MIKE CONTROLLER	18011	774	ORIEL INSTRUMENTS	WS-843	000	3,927.00	5810
005585	237	COMPUTER	486/33M	4148HBN10070	COMPAQ COMPUTER CORP	WS-800	HPTA	3,960.00	7021
930774	219	PROJECTOR	101790	13916	PROXIMA	WS-201	103A	3,975.00	6730
931385	211	PROJECTOR	XG-C50X	209314420	SHARP CORP	WS-203	000	3,975.00	6730
328331	201	POWER SUPPLY	152A	E287	MONROE ELECTRONICS INC	WS-203	108	3,985.00	6130
930369	221	SCALE, ELECTRONIC	PR8002	1119023084	METTLER INSTRUMENT CORP	WS-203	107	3,995.00	6670
329637	201	COMPUTER	98561X	UNKNOWN	HEWLETT-PACKARD CO	WS-203	108	4,000.00	7021
236298	222	COMPUTER	4DX33	1556234	GATEWAY COMPANIES INC	WS-800	000	4,000.00	7021
005582	219	COMPUTER	486/33M	4148HBN0351	COMPAQ COMPUTER CORP	WS-255	255A	4,008.00	7021
446316	237	COMPUTER	1080	A535HNY5E753	COMPAQ COMPUTER CORP	WS-800	CTR	4,010.00	7021
838783	201	STANDARD, REFERENCE DC	732A	4795010	FLUKE CORP	WS-203	108	4,040.00	6625
838820	201	STANDARD, REFERENCE DC	732A	4830003	FLUKE CORP	WS-203	108	4,040.00	6625
551169	227	FIBERSCOPE, INDUSTRIAL	IF6P04-11	1600078	OLYMPUS OPTICAL CO LTD	WS-200	163	4,048.00	6035
838016	237	OSCILLOSCOPE	2336	8017994	TEKTRONIX INC	WS-800	208	4,057.00	6625
005565	240	COMPUTER	486/33M	4147HBN10094	COMPAQ COMPUTER CORP	WS-203	131	4,071.00	7021
328102	201	VOLTMETER ELECTROSTATIC	168-1	172	MONROE ELECTRONICS INC	WS-203	108	4,075.00	6625
550842	217	HARDNESS TEST SYSTEM	717-25	71700	SHORE INSTRUMENT AND MFG CO	WS-203	116	4,078.00	6695
551618	261	WATER SYSTEM	D7334	8.52971E+11	BARNSTEAD/THERMOLYNE CORP DIV	WS-638	000	4,085.00	4620
931348	211	PROJECTOR	XG-C50X	303316255	SHARP CORP	WS-203	000	4,100.00	6730
931494	406	PROJECTOR	PJ1065	B11023600811	VIEW SONIC	WS-462	101	4,114.00	6730
551591	304	TIME SYSTEM, PROGRAMMABLE	9700AT	1315	DATUM INC	WS-300	BKR2	4,145.00	6645
551592	304	TIME SYSTEM, PROGRAMMABLE	9700AT	1314	DATUM INC	WS-300	000	4,145.00	6645
931376	216	CAMERA, LENS	AF-S NIKKOR 300MM	203940	NIKON CORP	WS-200	000	4,169.00	6760
0838563	201	GENERATOR, FUNCTION	3325B	2801A01313	HEWLETT-PACKARD CO	WS-203	108	4,186.00	6625
1295619	305	GENERATOR, WAVEFORM	PM5150553	L0621354	FLUKE CORP	WS-362	000	4,220.00	6625
1295620	305	GENERATOR, WAVEFORM	PM5150553	L0619350	FLUKE CORP	WS-300	102	4,220.00	6625
0325940	204	COMPUTER	5160	5684739	INTERNATIONAL BUSINESS MACHINE	WS-203	144	4,233.00	7021
1550685	217	MICROSCOPE	NONE	7386K	GAERTNER SCIENTIFIC CORP	WS-203	127	4,243.00	6650
1550537	420	POWER SUPPLY	FE4.3KVA	FE4.3KV02938	BEST POWER TECHNOLOGY INC	WS-300	BLK	4,244.00	6130
1550538	420	POWER SUPPLY, UNINTERRUPTABLE	FE4.3KVA	FE4.3K02931	BEST POWER TECHNOLOGY INC	WS-300	BLK	4,244.00	6130
1550539	420	POWER SUPPLY, UNINTERRUPTABLE	FE4.3KVA	FE4.3K02937	BEST POWER TECHNOLOGY INC	WS-300	BLK	4,244.00	6130
1550540	420	POWER SUPPLY, UNINTERRUPTABLE	FE4.3KVA	FE4.3K002939	BEST POWER TECHNOLOGY INC	WS-300	BLK	4,244.00	6130
1550603	250	COMPUTER	PENTIUM TOWER	P9601595	COMPUTREND BUSINESS COMPUTERS	WS-200	203	4,300.00	7021
0838048	407	RECORDER VIDEO CASSETTE	V0-5800	76897	SONY CORP OF AMERICA	WS-400	105	4,306.00	5820
1651209	216	CAMERA, DIGITAL	DCS PRO-14	3798	KODAK CANADA LTD	WS-200	000	4,324.00	6720
1651210	216	CAMERA, DIGITAL	DCS PRO-14	3797	KODAK CANADA LTD	WS-200	000	4,324.00	6720
1651211	216	CAMERA, DIGITAL	DCS PRO-14	3775	KODAK CANADA LTD	WS-200	000	4,324.00	6720
1651212	216	CAMERA, DIGITAL	DCS PRO-14	3024	KODAK CANADA LTD	WS-200	000	4,324.00	6720
1651213	216	CAMERA, DIGITAL	DCS PRO-14	3682	KODAK CANADA LTD	WS-200	000	4,324.00	6720
1930473	221	ANALYZER, OXYGEN	810	81000139	ILLINOIS INSTRUMENTS INC	WS-200	136A	4,345.00	6630
1235717	207	TRANSMITTER, PURC	C73JZB1106A	486CTG0300	MOTOROLA INC	WS-203	117	4,439.00	5820
1446207	227	MEGOHMETER	1865	5278922	QUADTECH INC	WS-200	163	4,445.00	6625
1446271	225	PRINTER, ADP	C2011A	USHB713359	HEWLETT-PACKARD CO	WS-201	102	4,500.00	7025
1930164	5	ANALYZER,GAS	RGA200	ECU8314	STANFORD RESEARCH SYSTEMS INC	WS-201	135A	4,500.00	6630
0703658	201	GENERATOR, PULSE	8082A	1822G02576	HEWLETT-PACKARD CO	WS-203	108	4,507.00	6625
0324295	243	OSCILLOSCOPE RACK MOUNTED	R564B	B070421	TEKTRONIX INC	WS-700	CTRL	4,524.00	6625
1931610	204	SCALE, BALANCE	PR50003	1122463014	METTLER INSTRUMENT CORP	WS-203	144	4,548.00	6670

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551696	404	ANALYZER, COMBUSTION	300	NONE	BACHARACH INC F-BACHARACH INST	WS-415	000	4,582.00	6630
005551	237	COMPUTER	486/33M	4147HBN10481	COMPAQ COMPUTER CORP	WS-800	HFTA	4,600.00	7021
327328	201	MULTIMETER DIGITAL AUTOCAL	1072	115053	DATRON ELECTRONICS LTD	WS-203	108	4,608.00	6625
327824	201	MULTIMETER	1072	16313	DATRON ELECTRONICS LTD	WS-203	108	4,608.00	6625
551458	218	PARTICLE COUNTER, LASER	A2408-1-115-1	970800333	PACIFIC SCIENTIFIC INSTRUMENTS	WS-200	116	4,629.00	6630
018724	201	SWEEP UNIT, SAMPLING	7T11A	B031643	TEKTRONIX INC	WS-203	108	4,636.00	6625
550865	250	DUPLICATOR, VHS	BRS777U	6111049	JVC	WS-200	203	4,646.00	5836
551615	218	PARTICLE COUNTER, AIRBORNE	2408	970900207	PACIFIC SCIENTIFIC INSTRUMENTS	WS-200	111	4,664.00	5635
325409	217	ULTRASCOPE	1075-7	131-888	STAVELEY INSTR F-NORTEC CORP	WS-203	123	4,671.00	6625
838630	239	DISK DRIVE UNIT	RZ55FA	AB907056X	DIGITAL EQUIPMENT CORP	WS-201	136	4,690.00	7025
838006	216	CAMERA, VERTIGRAPHIX	1800	700-200020	VISUAL GRAPHICS CORP	WS-200	102	4,785.00	6720
930366	223	PROJECTOR	POWERLITE 7550C	BQ60010017A	EPSON AMERICA INC	WS-201	114	4,790.00	6730
930401	215	PROJECTOR	POWERLITE 7550C	BQ60010097A	EPSON AMERICA INC	WS-203	000	4,790.00	6730
931447	230	SERVER	POWEREDGE 1600	3WNFB31	DELL COMPUTER CORP F-PC'S LTD	WS-201	139	4,792.00	7021
005519	240	COMPUTER	486/33M	4203HBN10036	COMPAQ COMPUTER CORP	WS-800	HPTA	4,800.00	7021
930151	408	POWER SUPPLY	FE SERIES	FER7K00386	BEST POWER TECHNOLOGY INC	WS-400	000	4,800.00	6150
243008	272	TIMER DELAY	453	4-584	CORDIN CO	WS-203	SHB0	4,818.00	6760
839351	242	COMPUTER	386/25E	4038HAL50344	COMPAQ COMPUTER CORP	WS-272	NNBK	4,866.00	7021
018714	201	METER POWER	438A	2743A04762	HEWLETT-PACKARD CO	WS-203	108	4,898.00	6625
930498	219	PROJECTOR	ULTRALIGHT LX2	G0604679	PROXIMA CORP	WS-201	120	4,908.00	6730
929999	218	MANIFOLD SYSTEM	A2432	980800713	PACIFIC SCIENTIFIC INSTRUMENTS	WS-200	116	4,923.00	4140
323409	403	PANEL ASSY QD ACTUATION FUEL	OMS/TS403	NONE	LOCKHEED CP ELECTRONIC CO	WS 401	000	5,000.00	6680
323410	403	PANEL ASSY PURGE OMS/FUEL	LDW-433-1666-1	NONE	LOCKHEED CP ELECTRONIC CO	WS-401	000	5,000.00	6680
323414	403	PANEL HELIUM DISTRIBUTION	434-11842	NONE	LOCKHEED CP ELECTRONIC CO	WS-401	000	5,000.00	3655
323418	403	PANEL ASSY PURGE OMS/OX	LDW-433-1666-2	NONE	LOCKHEED CP ELECTRONIC CO	WS-401	000	5,000.00	6680
323419	403	PANEL ASSY QD ACTUATION OX	OMS/TS403	NONE	LOCKHEED CP ELECTRONIC CO	WS-401	000	5,000.00	6680
323453	408	PANEL, STEAM GEN. OPERATOR	NONE	NONE	GRUMMAN AEROSPACE CORP	WS-400	105	5,000.00	3695
323454	408	CONSOLE ELECTRICAL PWR SUPPLY	NONE	NONE	GRUMMAN AEROSPACE CORP	WS-400	105	5,000.00	3695
323455	408	CONSOLE ALCOHOL CONTROL	NONE	NONE	GRUMMAN AEROSPACE CORP	WS-400	105	5,000.00	3695
323456	408	CONSOLE STRIP CHART RECORDER	NONE	NONE	GRUMMAN AEROSPACE CORP	WS-400	105	5,000.00	3695
323457	408	CONSOLE WATER CONTROL	NONE	NONE	GRUMMAN AEROSPACE CORP	WS-400	105	5,000.00	3695
323458	408	CONSOLE TEMPERATURE CONTROL	NONE	NONE	GRUMMAN AEROSPACE CORP	WS-400	105	5,000.00	3695
323571	405	CABINET	4012	NONE	ASTRODATA SYSTEMS CORP	WS-400	BKR2	5,000.00	7025
323910	226	FLARING MACHINE	2C	84699-573	CONRAC CORP CRAMER DIV	WS-310	114	5,000.00	3441
325185	209	CALIBRATOR, AUTOMATIC	1051	7104-91201	EMERSON ELECTRIC CO BROOKS	WS-203	138	5,000.00	6680
326275	305	VALVE CHECKOUT UNIT	462-12164	121	LOCKHEED CP ELECTRONIC CO	WS-300	107	5,000.00	6680
326483	501	DECONTAMINATION UNIT ASSY	TPS-4-OTM-592	NONE	LOCKHEED CP ELECTRONIC CO	WS-460	YARD	5,000.00	3694
328069	837	CAMERA, VIDEO, COLOR	N-2000	34520179	NISUS VIDEO INC	WS-800	C832	5,000.00	5820
328070	252	CAMERA, VIDEO, COLOR	N-2000	3511084	NISUS VIDEO INC	WS-200	100A	5,000.00	5820
328071	252	CAMERA, VIDEO, COLOR	N-2000	35110170	NISUS VIDEO INC	WS-200	100A	5,000.00	5820
328253	252	CAMERA, VIDEO	V-14B	742-194	NAC INC	WS-200	100A	5,000.00	5820
838049	401	VALVE PANEL,FUEL	43064831	1	GRUMMAN AEROSPACE CORP	WS-401	TSTAN	5,000.00	6636
838050	401	VALVE PANEL,OXIDIZER	43068871	1	GRUMMAN AEROSPACE CORP	WS-401	TSTAN	5,000.00	6636
1235340	221	COMPUTER	ASI	10539	XSTRA SCIENTIFIC	WS-200	136	5,000.00	7021
1236104	221	CONTROL UNIT	40-590	G12108	GOW-MAC INSTRUMENT CO	WS-200	144	5,000.00	6630
323829	209	COMPUTER	3497A	2514A16459	HEWLETT-PACKARD CO	WS-203	134	5,009.00	7021
327243	250	VIDEO TIME BASE CORRECTOR	FA400	1430606	FOR-A CORPORATION OF AMERICA	WS-200	100	5,010.00	6625
328779	237	PYROMETER	R-35C15	127303	IRCON INC	WS-201	137	5,010.00	6685
328858	214	PYROMETER	R-35C15-4-0-1-550000	127395	IRCON INC	WS-201	134	5,010.00	6685
1005795	217	SPUTTER COATER	5000	230692-023	PELLA TED INC	WS-203	123	5,013.00	6640
1551356	218	DRYER	JT75CE	OTCK9704041487	RAYTHEON APPLIANCE CO	WS-200	LABCO	5,039.00	3510
839124	230	POWER SUPPLY, UNINTERRUPTABLE	FD7KVA	FD70K05334	BEST POWER TECHNOLOGY INC	WS-201	139	5,040.00	6130
838431	304	SYSTEM, TIME PROGRAMMABLE	9700	238	DATUM INC F-PERIPH. INTERFACE	WS-300	000	5,050.00	6625

This list is current as of the release date of the RFP

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
338432	405	SYSTEM, TIME PROGRAMMABLE	9700	237	DATUM INC F-PERIPH. INTERFACE	WS-400	106	5,050.00	6625
326802	227	CLEAN ROOM	DF48-7	NONE	ATMOS-TECH INDUSTRIES	WS-201	CTF	5,066.00	6636
328099	301	TANK ST. STEEL 500 PSI	400 GALLON	3277	WSF INDUSTRIES INC	WS-400	YARD	5,080.00	5430
295670	227	HYGROMETER	NONE	10275	SHAW MOISTURE METERS	WS-200	CTF	5,095.00	6685
551878	219	PROJECTOR, MULTIMEDIA	DP5900	G7Z01822	PROXIMA CORP	WS-201	121	5,100.00	6730
550858	227	PARTICLE COUNTER, AIRBORNE	A2408-1-115-1	962074571	PACIFIC SCIENTIFIC INSTRUMENTS	WS-200	163	5,121.00	6665
930565	305	COMPUTER	PRECISION 420	DQ1V201	DELL COMPUTER CORP F-PC'S LTD	WS-300	BLKHO	5,142.00	7021
930200	222	COMPUTER, LAPTOP	WT100819	8002151	WEDGE TECHNOLOGY	WS-201	103A	5,145.00	7021
005601	221	CHROMATOGRAPH, GAS	5890A	3114A39387	HEWLETT-PACKARD CO	WS-203	124	5,151.00	6630
838559	250	RECORDER, VIDEO CASSETTE	AG7500A	H9TC00140	PANASONIC	WS-200	100	5,187.00	5836
839938	250	CAMERA	WVF250	18A09311	PANASONIC	WS-200	100	5,187.00	5820
931766	219	SET, TELEVISION	42FD9954/17S	BZ000415 687773	PHILIPS CO	WS-201	000	5,200.00	5836
838841	832	CONING AND THREADING MACHINE	NONE	NONE	AUTOCLAVE ENGINEERS INC	WS-T241	000	5,205.00	3441
323966	115	PRESS PUNCH TURRET	R224	568E	WIEDEMANN DIV WARNER & SWASEY	WS-113	113F	5,226.00	3445
018737	201	CONVERTER FREQUENCY	5355A	2732A02814	HEWLETT-PACKARD CO	WS-203	108	5,228.00	6625
328131	218	TANK ULTRASONIC W/GENERATOR	HP1220	12857	DELTA SONICS INC	WS-200	PUR	5,235.00	4940
793082	201	TIME BASE PLUG IN	7B92A	B095721	TEKTRONIX INC	WS-203	108	5,236.00	6625
236376	221	WORK STATION,TURBOVAP	46368A	TV942N4139	ZYMARK CORP	WS-200	STORG	5,240.00	6695
838264	221	OVEN LABORATORY	BD908SC	9436	ASSOCIATED ENVIORNMENTAL SYS	WS-203	146	5,245.00	6636
839303	217	PROCESSOR, FILM	M35	35616	EASTMAN KODAK CO APPARATUS DIV	WS-203	121	5,245.00	6740
823536	227	VIDEOCOLONSCOPE	83156R	1734	WELCH ALLYN INC	WS-200	163	5,250.00	6515
930547	406	PROJECTOR	POWERLITE7250	BQJ09Y0177K	EPSON AMERICA INC	WS-400	104	5,265.00	6730
446393	221	MONITOR, HYDRAZINE	4187	813621	INTERSCAN CORP	WS-200	STORG	5,275.00	6665
446394	221	MONITOR, HYDRAZINE	4187	813619	INTERSCAN CORP	WS-200	STORG	5,275.00	6665
446395	221	MONITOR, HYDRAZINE	4187	813620	INTERSCAN CORP	WS-200	STORG	5,275.00	6665
328330	227	MACHINE FLARING	232B	3364	PARKER-HANNIFIN CORP TUBE	WS-200	NHB	5,281.00	3441
838203	223	BUILDING, PORTABLE	1424KMTBCSAN	R49235	MORGAN BUILDING SYSTEMS	WS-272	000	5,285.00	5410
551125	408	RECORDER, INTELLIGENT PEN	371131	46UB0928	YOKOGAWA ELECTRIC WORKS LTD	WS-400	105	5,290.00	7035
551126	408	RECORDER, INTELLIGENT PEN	371131	46UB0929	YOKOGAWA ELECTRIC WORKS LTD	WS-400	105	5,290.00	7035
551127	408	RECORDER, INTELLIGENT PEN	371131	46UB0927	YOKOGAWA ELECTRIC WORKS LTD	WS-400	105	5,290.00	7035
551128	408	RECORDER, INTELLIGENT PEN	371131	46UB0931	YOKOGAWA ELECTRIC WORKS LTD	WS-400	101	5,290.00	7035
931109	230	SERVER	ALPHASERVER DS10	4233JM2Z0021	COMPAQ COMPUTER CORP	WS-201	139	5,291.00	7021
931110	230	SERVER	ALPHASERVER DS10	4233JMZ0019	COMPAQ COMPUTER CORP	WS-201	139	5,291.00	7021
931111	230	SERVER	ALPHASERVER DS10	4233JM2Z0020	COMPAQ COMPUTER CORP	WS-201	139	5,291.00	7021
0325572	218	ANALYZER, FREON VAPOR	075-2101	101-264	FOXBORO CO THE	WS-200	111	5,292.00	6665
0838996	301	SEMITRAILER, CARGO	NONE	46048	KENTUCKY MFG CO	WS-300	YARD	5,300.00	2330
1551232	221	CHROMATOGRAPH	69350	K164001	GOW-MAC INSTRUMENT CO	WS-200	STORG	5,300.00	6630
1236071	221	MASS SELECTIVE DETECTOR	59765A	3327A00103	HEWLETT-PACKARD CO	WS-203	146	5,310.00	6665
0324906	209	STANDARD PRESSURE W/DIGITAL RO	DDR-6000*0-10	25836	RUSKA INSTRUMENT CORP	WS-203	134	5,323.00	6685
1930041	250	VIDEO CASSETTE RECORDER	BR-S822DXU	16211327	VICTOR CO OF JAPAN	WS-200	203	5,342.00	5836
0326267	402	TANK,FUEL/UDMH/	NONE	1841	CAPITAL WESTWARD INC	WS-303	000	5,348.00	3655
0324905	209	STANDARD PRESSURE QUARTZ	DDR-6000	25837*0-100	RUSKA INSTRUMENT CORP	WS-203	134	5,376.00	6685
1930963	272	BUILDING, PORTABLE	1224KQTBCASN	R80139	MORGAN BUILDING SYSTEMS	WS-272	0000	5,385.00	5410
0329486	237	CAPACITIVE DISPLACEMENT SYSTEM	SYSTEM 1000	330001	MECHANICAL TECHNOLOGY INC	WS-201	134	5,450.00	6625
0022278	201	CALIBRATION FIXTURE	067-0587-02	B050003	TEKTRONIX INC	WS-203	108	5,460.00	6625
0324778	204	TABLE,INDEXING,12 INCH	NONE	1198	AA GAGE INC F-AA INDUSTRIES	WS-203	144	5,500.00	3460
0326622	832	DRIVE MECHANICAL ADJUST SPEED	TYPE AJ4B	9393010001	MAGNETEK INC ALLIS DV F-ALLIS	WS-800	111	5,500.00	3010
0839986	252	OPTICAL HEAD	41-0061	NONE	REDLAKE IMAGING CORP	WS-200	110A	5,500.00	6760
1930213	222	COMPUTER	PENTIUM III	114930	PC POWER	WS-201	144	5,501.00	7021
1930214	222	COMPUTER	PENTIUM III	UNKNOWN	PC POWER	WS-201	144	5,501.00	7021
0839538	217	HEAT EXCHANGER	3.27004E+11	91BML72910-1	NESLAB INSTRUMENTS INC	WS-255	000	5,505.00	4420
1235427	201	STEP GENERATOR	067-1338-00	B010202	TEKTRONIX INC	WS-203	108	5,510.00	6625
1235428	201	STEP GENERATOR	067-1338-00	B010201	TEKTRONIX INC	WS-203	108	5,510.00	6625

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.235429	201	STEP GENERATOR	067-1338-00	B010200	TEKTRONIX INC	WS-203	108	5,510.00	6625
)329358	201	READER PRINTER FICHE	RP503	169167	MINOLTA CORP	WS-203	108	5,514.00	6730
)324041	201	GENERATOR SIGNAL	8640B	1423A02139	HEWLETT-PACKARD CO	WS-203	108	5,519.00	6625
1931360	204	CALIBRATOR, IMPULSE	462A36	126	PCB PIEZOTRONICS	WS-203	133	5,525.00	6680
)325106	221	ANALYZER, OXIDES OF NITROGEN	952A	1000011	BECKMAN INDUSTRIAL CORP	WS-200	SHEAD	5,537.00	6630
1005498	201	RESISTANCE STANDARD	SR104	J203119130104	ELECTRO SCIENTIFIC IND F-BROWN	WS-203	108	5,555.00	6625
1005714	218	PARTICLE COUNTER, AIRBORNE	200L-1-115-1	920841311C	PACIFIC SCIENTIFIC INSTRUMENTS	WS-200	WHTRM	5,557.00	6665
1005883	217	POLISHER/ETCHER	70-1830-115	463	BUEHLER LTD	WS-203	123	5,560.00	6640
)839419	408	GENERATOR, TIME CODE	9700	584	DATUM INC F-PERIPH. INTERFACE	WS-400	106	5,580.00	6645
1005891	201	REFERENCE DIVIDER	752A	5555201	FLUKE CORP	WS-203	108	5,600.00	6625
1930101	115	COMPRESSOR, AIR	770A	4019X4473	LEROI DIV DRESSER IND F-WAYNE	WS-113	SHOP	5,618.00	4310
1551357	218	WASHING MACHINE	UC50MN2LU20001	NO497101417	RAYTHEON APPLIANCE CO	WS-200	LABCO	5,619.00	3510
1930188	224	COMPUTER	XPS R450	10MCI	DELL COMPUTER CORP F-PC'S LTD	WS-203	000	5,666.00	7021
1236497	407	RECORDER, VIDEO	AG-DS850P	F4TC00014	MATSUSHITA ELEC INDUS CO	WS-462	000	5,670.00	5836
)838321	237	COMPUTER	386/20E	4911HS4H2378	COMPAQ COMPUTER CORP	WS-800	HFTA	5,694.00	7021
1931114	217	SYSTEM, DATA ACQUISITION	N9	NONE	WESCOM	WS-203	123	5,698.00	7021
)329799	207	BASE STATION	C73KSB-3196B	482CNL0269	MOTOROLA INC	WS-200	161	5,705.00	5820
)329800	207	BASE STATION	C73KSB-3196B	482CNL0268	MOTOROLA INC	WS-200	161	5,705.00	5820
)839552	832	ANALYZER, OXYGEN	755A	2000391	BECKMAN INDUSTRIAL CORP	WS-800	116	5,720.00	6665
)839553	832	ANALYZER, OXYGEN	755A	2000390	BECKMAN INDUSTRIAL CORP	WS-800	101	5,720.00	6665
)839875	250	EDIT CONTROLLER	NONE	548	VIDEOMEDIA/SYSTEMS ENGR & DVLM	WS-200	100	5,735.00	5820
)838266	217	GENERATOR GRAPHICS	33	33136	GW ELECTRONICS INC	WS-203	000	5,750.00	7025
)839143	201	OSCILLOSCOPE, DIGITIZING	54504A	2944A01008	HEWLETT-PACKARD CO	WS-203	108	5,786.00	6625
)839144	201	OSCILLOSCOPE, DIGITIZING	54504A	2944A01009	HEWLETT-PACKARD CO	WS-203	108	5,786.00	6625
)326351	221	DETECTOR, ELECTROLYTIC CONDUCT	4420	NONE	O I CORP DBA O I ANALYTICAL	WS-203	146	5,800.00	6625
)328913	832	DRIVE SPEED ADJUSTABLE	AJ4B	7-390729002	MAGNETEK INC ALLIS DV F-ALLIS	WS-800	111	5,806.00	3010
)329391	832	DRIVE SPEED ADJUSTABLE	AJ4B	7-390729003	MAGNETEK INC ALLIS DV F-ALLIS	WS-255	000	5,806.00	3010
1654795	227	BOROSCOPE	FS-126	9004	OPTIM ELECTRONICS CORP	WS-200	NHB	5,815.00	6650
1654796	227	BOROSCOPE	FS-126	9003	OPTIM ELECTRONICS CORP	WS-201	CTF	5,815.00	6650
)839733	250	PRINTER, COLOR VIDEO	UP5000	62590	SONY CORP	WS-200	100	5,823.00	5820
1930500	250	CAMCORDER, VIDEO	GY-DV500	11555881	JVC	WS-200	100	5,836.00	5836
)325020	205	RECORDER OSCILLOGRAPHIC	7404A	1512A00170	HEWLETT-PACKARD CO	WS-203	151	5,875.00	6625
)839966	201	GENERATOR, RF SIGNAL	6061A	5375303	FLUKE CORP	WS-203	108	5,875.00	6625
1235976	837	CONTROLLER, FLOW	901C-AL-RM	19071	SIERRA INSTRUMENTS INC	WS-800	116	5,880.00	6685
)328395	832	DRIVE SPEED ADJUSTABLE	30-254T	6B58073001	MAGNETEK INC ALLIS DV F-ALLIS	WS-830	000	5,881.00	3010
)329715	201	ANALYZER, AUDIO	8903B	2818A04102	HEWLETT-PACKARD CO	WS-203	108	5,885.00	5820
)681713	226	TRAILER TANK	NONE	B782	PRENTEX ALLOY FABRICATORS INC	WS-400	BONYD	5,890.00	2330
)683910	226	TRAILER TANK	NONE	B781	PRENTEX ALLOY FABRICATORS INC	WS-400	BONYD	5,890.00	2330
)683911	226	TRAILER TANK	NONE	B780	PRENTEX ALLOY FABRICATORS INC	WS-400	BONYD	5,890.00	2330
1550534	210	CALIBRATOR, DRY-WELL	9122	5B112	HART SCIENTIFIC	WS-203	143	5,890.00	6625
)324943	221	ANALYZER, ORGANIC VAPOR	OVA-128A	C9506	FOXBORO CO THE	WS-200	136A	5,930.00	6635
1931723	221	SCALE, BALANCE	SR64001	1125222710	METTLER INSTRUMENT CORP	WS-203	000	5,949.00	6670
1930693	221	PROCESSOR, HIGH SPEED	VECTRA VL400	US04502418	HEWLETT PACKARD CO DIS	WS-200	142	5,950.00	7021
)324502	201	OIL BATH CONSTANT TEMPERATURE	9730CR-1	27920	GUILDLINE INSTRUMENTS LTD	WS-203	108	5,970.00	6625
)838836	255	BUILDING, PORTABLE	1424K9TBCSCN	R51557	MORGAN BUILDING SYSTEMS	WS-252	000	5,980.00	5410
)838039	834	LOGGER DATA	245	679702	BECKMAN IND INSTRUMENT PROD'N	WS-800	208	5,985.00	6625
1295454	221	READER CD ROM	CDR400G	46016544D	NEC CORP	WS-203	146	5,995.00	7025
)325530	408	CALIBRATOR, FREQUENCY	TSC2000	20005	BELL & HOWELL ROCHESTER FILM	WS-400	BSMT	6,000.00	6625
)328072	207	MONITOR, LORAN-C FREQUENCY	2100F	57421T	AUSTRON INC	WS-203	108	6,000.00	6625
)838697	217	MICROTOME	200	8909355	ANGLIA SCIENTIFIC	WS-203	116	6,000.00	6515
)839962	243	INSERTER, VIDEO CHARACTER	3960-122	49	DATA CHRON INC	WS-700	CTRL	6,000.00	5820
)839963	243	GENERATOR, TIMECODE	3170-179	563	DATA CHRON INC	WS-700	000	6,000.00	6625
1298526	272	CONTROLLER, CAMERA	470	4/10/1980	CORDIN CO	WS-272	0000	6,000.00	6625

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930632	243	BALLISTICS TIMER	UDC-100	1	PHYSICS CORP	WS-272	SBUNK	6,000.00	6645
838117	301	BUILDING, PORTABLE	1224KOTBCSSN	E46895	MORGAN BUILDING SYSTEMS	WS-300	YARD	6,010.00	5410
839806	242	OSCILLOSCOPE	PM3375	DM527021	FLUKE CORP	WS-201	137	6,018.00	6625
838362	237	COMPUTER	386/20E	4912HS4H0857	COMPAQ COMPUTER CORP	WS-800	HFTA	6,023.00	7021
327870	207	BASE STATION	C7365B-3105B	582CLU0006	MOTOROLA INC	WS-200	NHB	6,064.00	5820
324350	243	ANALYZER, SERIAL DATA	1640B	2044A00727	HEWLETT-PACKARD CO	WS-201	136	6,087.00	6625
931926	115	ROTARY TABLE	DL-6.5-B-90	6044-3	TROYKE MFG CO	WS-113	FAB	6,100.00	3414
446256	834	POWER SUPPLY	PAX35-20	11120039	KIKUSUI ELECTRONICS CORP	WS-252	000	6,130.00	6130
838547	237	COMPUTER	386/25	4921AR6B0634	COMPAQ COMPUTER CORP	WS-800	208	6,159.00	7021
191591	211	AMPLIFIER DISTRIBUTION	5087A	2208A05504	HEWLETT-PACKARD CO	WS-203	108	6,161.00	5895
930513	250	SCANNER	SPRINTSCAN45ULTRA	F001106	POLAROID CORP	WS-200	109	6,182.00	7025
328623	221	DETECTOR VARIABLE WAVELENGTH	UV-IS	872604	DIONEX CORPORATION	WS-200	STORG	6,250.00	6630
838586	250	SWITCHER	600	NONE	PRIME IMAGE INC	WS-200	100	6,270.00	5820
327239	252	MICROSCOPE ASSEMBLY	47-5100	NONE	ZEISS CARL-OPTISCHE WERKE	WS-200	100A	6,284.00	6650
005394	832	INVERTER	A31-1.5K24V-A6	K6154-3	LA MARCHE MFG CO	WS-800	CNTRL	6,298.00	6130
673242	226	TANK LIQUID STORAGE OXIDIZER	HSB781	T-356-2	SOUTHWEST TANK AND SUPPLY INC	WS-155	YARD	6,300.00	3655
005895	115	HARDNESS TESTER	D	NONE	PROCEQ SA	WS-113	SHOP	6,325.00	6635
446214	221	CHROMATOGRAPH, GAS	93300	N946	SRI INSTRUMENTS INC	WS-200	STORG	6,351.00	6635
930042	250	VIDEO CASSETTE RECORDER	BR-S525DXU	15210277	VICTOR CO OF JAPAN	WS-200	203	6,383.00	5836
446312	227	CLEAN ROOM	A2000	NONE	CLEAN ROOM PRODUCTS INC	WS-200	163	6,384.00	6636
327028	217	MACHINE,ELECTRO-MECH TESTING	TO	87250-3	TINIUS OLSEN TESTING MACHINE	WS-203	123	6,410.00	6625
551123	305	OSCILLOSCOPE	TDS420A	B040451	TEKTRONIX INC	WS-300	BSMT	6,411.00	6625
551124	405	OSCILLOSCOPE	TDS420A	B040456	TEKTRONIX INC	WS-400	101	6,411.00	6625
931126	227	PARTICAL COUNTER	2400	20801086	PACIFIC SCIENTIFIC INSTRUMENTS	WS-200	NHB	6,448.00	6695
295488	304	RECORDER, SEQUENTIAL EVENT	4100	569830-001	HATHAWAY CORP F-HATHAWAY	WS-300	BASMT	6,450.00	7050
930548	837	PUMP, CRYO	M450A	4239	AUSTIN SCIENCE ASSOCIATES INC	WS-203	000	6,450.00	4310
005874	201	DATA ACQUISITION SYSTEM	3852A	M889319	HEWLETT-PACKARD CO	WS-203	108	6,466.00	7025
838917	831	ANALYZER, GAS	22P	7MB1123-1GG13-1BA1	SIEMENS CORP	WS-800	101	6,480.00	6630
236010	220	BUILDING, PORTABLE	1424K9TBCSAL	R58060	MORGAN BUILDING SYSTEMS	WS-203A	MORGN	6,485.00	5410
323556	408	CONSOLE CAMERA SPEED CONTROL	NONE	NONE	GRUMMAN AEROSPACE CORP	WS-400	BKR2	6,500.00	3695
328134	832	FLARING MACHINE	2C	2C793	TULIP CORP	WS-801	000	6,500.00	3441
005495	214	SPECTROMETER, FTIR	U2100	UNKNOWN	MIDAC CORP	WS-201	134	6,500.00	5860
002428	213	SIGNAL ANALYZER	SR770	24300	STANFORD RESEARCH SYSTEMS INC	WS-800	HPCTR	6,500.00	6625
326062	220	CONTROLLER VALVE AUTOMATIC	AVC	73G022	VARIAN ASSOC PALO ALTO VAC DIV	WS-203	130	6,505.00	6695
235333	221	ELECTROCHEMICAL DETECTOR	1049A	3106G00491	HEWLETT-PACKARD CO	WS-203	124	6,509.00	6630
324424	832	TRAILER TANK - WSTF -011	NONE	B18202	CSI (CONTAINER SERVICES INC)	WS-500	000	6,525.00	2330
324426	832	TRAILER,TANK WSTF-10	NONE	B1820-1	CSI (CONTAINER SERVICES INC)	WS-841	000	6,525.00	3655
931394	115	AIR COMPRESSOR	EFC99A	S151039	GARDNER-DENVER/COOPER INDUSTRI	WS-113	000	6,571.00	4310
839276	305	ANALYZER, LOGIC	1653B	3012A00518	HEWLETT-PACKARD CO	WS-300	BSMT	6,586.00	6625
839374	221	BALANCE, ELECTRONIC	M3-36	5084	METTLER INSTRUMENT CORP	WS-203	107	6,589.00	6670
329747	201	CALIBRATION KIT	85052B	2751A00461	HEWLETT-PACKARD CO	WS-203	108	6,594.00	6625
931624	261	PUMP, SUBMERSIBLE	MIDI-N	HCHI-648962	GRINDEX PUMPS	WS-638	000	6,638.00	4310
323332	115	GENERATOR WELDING MULTI-ARC	44G	JC630076	MILLER ELECTRIC MFG CO	WS-113	113F	6,650.00	3431
235476	214	BURNER	RD1X1	NONE	RESEARCH TECHN INT'L F-HARWALD	WS-201	135	6,650.00	6630
005755	250	GENERATOR, DIGITAL EFFECTS	KM-D600U-C	12650145	JVC CO OF AMERICA	WS-200	100	6,674.00	5896
930537	221	TITRATOR, COULOMETRIC	C3000	8135703	AQUASTAR	WS-200	136	6,681.00	6635
325137	221	VESSEL OUTGASSING/SAMPLING	NONE	WSTF002	SCHWABEL FABRICATING CO INC	WS-203	146	6,690.00	6680
326930	221	VESSEL OUTGASSING SAMPLING	NONE	WSTF001	SCHWABEL FABRICATING CO INC	WS-203	146	6,690.00	6680
931761	204	DRY-WELL CALIBRATOR	9107	A45464	HART SCIENTIFIC	WS-203	143	6,690.00	6680
328341	221	VESSEL SAMPLE AND OUTGASSING	487	2	SCHWABEL FABRICATING CO INC	WS-203	146	6,692.00	6636
175279	207	REFLECTOMETER,TIME DOMAIN	1502	R115580	TEKTRONIX INC	WS-203	108	6,713.00	6625
839475	831	ANALYZER, GAS	22P	B02694	SIEMENS-ENERGY AND AUTOMATION	WS-800	108	6,714.00	6665
551043	221	BATH, REFRIGERATED WATER	CT62	166085	SCHOTT CORP	WS-200	136	6,715.00	6640

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Nation Stock #	Document Control #
324287	834	POWER SUPPLY 0-36VDC 0-300AMPS	6459C	2329A00716	HEWLETT-PACKARD CO	WS-201	136B	6,721.00	6625
551317	221	ELECTROCHEMICAL DETECTOR	1049A	3314G00993	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	6,739.00	6695
931361	238	SCBA TEST BENCH	POSICHEK 3	L03118	BIOSYSTEMS INC	WS-200	PPE	6,739.00	6680
551153	832	GAS BOOSTER, AIR DRIVEN	8AGT14/30	1096-905	HASKEL CONTROLS	WS-805	000	6,747.00	4320
.005393	831	ANALYZER, GAS	7MB1121-AGG13-1BA1	BN973	SIEMENS ENERGY AND AUTOMATION	WS-800	119	6,789.00	6665
235701	220	CONTROLLER, TQCM	73DET/C	810	FARADAY LABS INC	WS-203	STORA	6,800.00	6670
930892	221	SCALE, BALANCE	AX205	1120450928	METTLER INSTRUMENT CORP	WS-200	136	6,800.00	6670
236105	221	INTEGRATOR	3396B	322P35885	HEWLETT-PACKARD CO	WS-200	136	6,804.00	6630
326435	209	STANDARD PRESSURE 0-10000 PSIG	6000-805	29312	RUSKA INSTRUMENT CORP	WS-203	133	6,835.00	6685
.931207	201	MULTIMETER	3458A	US28029663	AGILE CORP	WS-203	108	6,838.00	5860
236454	221	GENERATOR, HYDROGEN	B940000	405623	PACKARD INSTRUMENT CO INC	WS-200	STORG	6,850.00	6695
.446379	227	MICROPRINTER	M32043	32106337	CANON INC	WS-200	CTF	6,857.00	6730
839826	201	COUNTER, MICROWAVE	351D	1984	EIP MICROWAVE INC	WS-203	108	6,873.00	6625
839835	201	COUNTER, MICROWAVE	545A	1418	EIP MICROWAVE INC	WS-203	108	6,873.00	6625
.931155	211	MICROWAVE COUNTER	53151A	US405100834	AGILENT TECH	WS-203	000	6,904.00	5860
807915	252	TELESCOPE	3X	8593	FLIR SYSTEMS-BOSTON INC	WS-200	100A	6,912.00	6650
838780	305	COMPUTER	386/33	4935HAB20189	COMPAQ COMPUTER CORP	WS-300	114A	6,920.00	7021
839734	221	GLOVE BOX	EE43-2	014811-2313	VACUUM/ATMOSPHERES CO F-ALLEN	WS-203	146	6,925.00	6636
.930802	221	COMPUTER	TCU-M850	MA112217036-1	COMPAQ COMPUTER CORP	WS-200	138A	6,950.00	7021
327333	207	CONSOLE 8-CHANNEL	T1617CM	222CLJ0083	MOTOROLA INC	WS-200	161	6,953.00	5820
.235463	220	CONTROLLER TQCM	72-DET	TC30R	FARADAY INCORPORATED	WS-203	131	6,975.00	6625
.550605	242	COMPUTER	PA1214UXT	36406593	TOSHIBA AMERICAN INFO SYSTEMS	WS-201	114	6,989.00	7021
328336	221	VESSEL SAMPLE AND OUTGASSING	488	1	SCHWABEL FABRICATING CO INC	WS-203	146	6,992.00	6636
.295579	223	HEAT EXCHANGER	CCA-012C-048CB	NONE	AFFINITY INC	WS-805	000	6,995.00	4420
324236	834	LOGGER DATA	235	11062	EMERSON ELECTRIC CO DORIC	WS-201	137	7,000.00	6625
838451	832	BREATHING MACHINE	BM2-4-6-30	09-622	TEST ENGINEERING INC	WS-800	TRLR	7,000.00	4320
.551056	221	COMPUTER	924WW	KN622A6843	DIGITAL COMPUTER SERVICES INC	WS-200	136A	7,000.00	7021
.930890	227	PARTICAL COUNTER	A2400	10901055	PACIFIC SCIENTIFIC INSTRUMENTS	WS-200	NHB	7,000.00	6695
323821	250	CAMERA, VIDEO, COLOR	DXC-M3AK	10102	SONY CORP OF AMERICA	WS-200	100	7,015.00	5820
838844	831	COMPUTER	386\25	4920AR2B0694	COMPAQ COMPUTER CORP	WS-800	118	7,030.00	7021
.930839	214	FIBER OPTICS SENSOR	FIBERPRO--USB	FP003	LUNA MFG	WS-203	111	7,070.00	6030
325446	217	TUBESTAND HYDRAULIC X-RAY G301	9421-17082003	165225	WMW ASSOCIATES INC	WS-203	122	7,092.00	6525
.005466	222	COMPUTER	4/50GX	139M1260	SUN MICROSYSTEMS INC	WS-201	144	7,097.00	7021
327618	305	ARCS, BAY4	NONE	NONE	LOCKHEED CP LOCKHEED-GEORGIA	WS-300	000	7,100.00	7025
.005659	831	GAS ANALYZER	22P	C3-135	SIEMENS AKTIENGESELLSCHAFT	WS-800	119	7,100.00	6630
.930260	115	CABINET	3W416	NONE	LISTA INTERNATIONAL CORP	WS-113	SHOP	7,125.00	7125
.930263	227	RECORDER, OSCILLOGRAPHIC	OR1400	12V730237	YOGOGAWA PRECISION	WS-200	CTF	7,125.00	5835
328964	221	SURFACE MEASURING INSTRUMENT	230-00000-00	642	MICRO METRICS INC	WS-200	143	7,150.00	6630
839207	221	DETECTOR, ELECTROLYTIC CONDUCT	4420	90-152	O I CORP DBA O I ANALYTICAL	WS-200	STORG	7,152.00	6630
839676	242	COMPUTER	486/33L	4115HAM30202	COMPAQ COMPUTER CORP	WS-800	208	7,154.00	7021
329272	242	VOLTMETER ELECTROSTATIC	341	7	TREK INC	WS-201	STORA	7,200.00	6625
.236254	218	HYGROMETER,DIAL INDICATING	600DDL	4924	STEPHENS ANALYTICAL INC	WS-200	LABCO	7,244.00	6685
329627	201	AMPLIFIER, MICROWAVE	8349B	2644A01998	HEWLETT-PACKARD CO	WS-203	108	7,253.00	6625
324394	832	CONING/THREADING MACHINE	CTM	83-01083-1	AUTOCLAVE ENGINEERS INC	WS-801	000	7,262.00	3419
838240	221	CHROMATOGRAPH, GAS	5890A	2843A21057	HEWLETT-PACKARD CO	WS-203	124	7,286.00	6630
.182297	211	DECADE, CAPACITOR	1413-3000-00	2437592004	GENERAL RADIO SUPPLY CO INC	WS-203	108	7,290.00	6625
.235369	221	TITRATOR	DL25	M82322	METTLER INSTRUMENT CORP	WS-200	136	7,365.00	6630
.931811	213	SYSTEM, CAMERA	NEXUS A 6400	2406	BALCAR DISTRIBUTION SA	WS-201	000	7,371.00	6710
.931812	213	SYSTEM, CAMERA	NEXUS A 6400	2407	BALCAR DISTRIBUTION SA	WS-201	000	7,371.00	6710
329403	201	MAINFRAME DATA ACQUISITION	3852A	UNKNOWN	HEWLETT-PACKARD CO	WS-203	108	7,376.00	7021
.235323	221	GLOVEBOX	43-2	014811-2440	VACUUM/ATMOSPHERES CO F-ALLEN	WS-203	146	7,400.00	6636
325526	201	OSCILLOSCOPE DUAL BEAM	7844	141648	TEKTRONIX INC	WS-203	108	7,401.00	6625
703693	201	OSCILLOSCOPE	7834	B022623	TEKTRONIX INC	WS-203	108	7,445.00	6625

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839705	243	TIME DOMAIN REFLECTOMETER	1502C	B0106553	TEKTRONIX INC	WS-201	103	7,445.00	6625
931507	420	SERVER	CISCO1111	181A51010502	HEWLETT PACKARD CO DIS	WS-101	210	7,461.00	7010
550964	242	POWER SUPPLY	EMHP300-60D42214	92EA092	LAMBDA EMI INC	WS-272	SBUNK	7,462.00	6130
651262	221	SCALE, BALANCE	AX205	1125073284	METTLER INSTRUMENT CORP	WS-200	000	7,468.00	6670
837893	221	CONCENTRATOR, PURGE AND TRAP	LSC2000	88225008	TEKMAR CO	WS-203	124	7,495.00	6640
323436	403	PANEL ASSY VENT AND BLEED FUEL	OMS/TS403	NONE	LOCKHEED CP ELECTRONIC CO	WS-401	000	7,500.00	6680
323438	403	PANEL ASSY VENT AND BLEED OX	OMS/TS403	NONE	LOCKHEED CP ELECTRONIC CO	WS-401	000	7,500.00	6680
930218	220	DETECTOR, HELIUM	9693500	100041	VARIAN ASSOC INSTRUMENT DIV	WS-203	131	7,530.00	6665
323976	115	SAW BAND 36-INCH	3612-3	153-64718	DOALL CO	WS-113	SHOP	7,548.00	3405
446375	221	CHROMATOGRAPH, GAS	8610	N1014	SRI INSTRUMENTS INC	WS-201	135A	7,561.00	6630
326130	408	CONTROL CONSOLE	42210270	157696/7	EMCOR INC	WS-400	105	7,590.00	6685
328961	115	WELDER	44G	JH252225	MILLER ELECTRIC MFG CO	WS-113	113F	7,596.00	3431
930521	250	PRINTER, ADP	PRO-9000	BJ60001496	EPSON AMERICA INC	WS-200	100	7,624.00	7025
551340	220	GAS ANALYZER, RESIDUAL	RGA200	NONE	STANFORD RESEARCH SYSTEMS INC	WS-203	131	7,650.00	6630
005605	221	COMPUTER	DT-A02	3139A12926	HEWLETT-PACKARD CO	WS-203	124	7,686.00	7021
325583	204	BALANCE, ANALYTICAL	J2000	29515	VICTOR DI-NAMIC CORP	WS-203	144	7,750.00	6670
838053	221	DETECTOR, ELECTROLYTIC CONDUCT	4420	3671-8-753	O I CORP DBA O I ANALYTICAL	WS-203	146	7,760.00	6630
327010	204	MICROBALANCE	UM-3	E12659	METTLER INSTRUMENT CORP	WS-203	144	7,785.00	6670
005892	220	CONTROLLER, TQCM	72DET	TC29R	FARADAY LABS INC	WS-203	131	7,785.00	6670
188267	211	METER GAIN-PHASE	3575A	2613A06543	HEWLETT-PACKARD CO	WS-203	108	7,844.00	6625
839990	221	COMPUTER	486/33L	4129HAM30168	COMPAQ COMPUTER CORP	WS-200	128	7,850.00	7021
235915	221	OVEN	7780	22X309-93	BLUE M ELECTRIC CO	WS-150	155	7,852.00	6640
088070	305	VIDEOGASTROSCOPE	81100	1343	WELCH ALLYN INC	WS-363	STORE	7,900.00	6545
327816	408	ANALYZER, DISTURBANCE	626	404546486	DRANETZ TECHNOLOGIES F-DRANETZ	WS-460	CAGE	7,903.00	6625
005854	226	FLARING MACHINE	2C	20-995	P-H-I DV TULIP CP F-PASADENA	WS-460	000	7,910.00	3441
838139	221	FUME HOOD	554S731-R-M	UNKNOWN	HAMILTON INDUSTRIES INC	WS-203	142	7,933.00	6636
324771	204	COMPARATOR PROJECTION CIRCULAR	PC14A	E-37128	WATERBURY FARREL DIV OF TEXTRO	WS-203	144	7,960.00	6635
930909	834	BUILDING, PORTABLE	122019TBCXCA	R-80414	MORGAN BUILDING CORP.	WS-250	YARD	7,960.00	5410
551313	221	AUTOSAMPLER	G1313A	US70201550	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	7,988.00	6695
551314	221	AUTOSAMPLER	G1313A	US70201551	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	7,988.00	6695
930488	221	ANALYZER, MOISTURE	MM1000D	100B-710020	SYSTECH CORP	WS-200	136A	7,995.00	6685
930417	501	PHEUMATIC AMPLIFIER	52547	A5354	HASKEL INC F-HASKEL ENGR &	WS-500	YARD	8,000.00	6685
839212	305	RECORDER, VOICE	9000-049	1149	PHI TCHNOLOGIES F-TRIPLE I INC	WS-300	000	8,020.00	5835
839213	408	RECORDER, VOICE	9000-049	1157	PHI TCHNOLOGIES F-TRIPLE I INC	WS-400	105	8,020.00	5835
551170	227	FIBERSCOPE, INDUSTRIAL	IF6C5-8	1600246	OLYMPUS OPTICAL CO LTD	WS-200	163	8,078.00	6035
703683	201	GENERATOR, SIGNAL	8640B	1948A12898	HEWLETT-PACKARD CO	WS-203	108	8,109.00	1552
326666	221	CHROMATOGRAPH GAS	5890A	NONE	HEWLETT-PACKARD CO	WS-200	STORG	8,144.00	6630
005509	501	TRAILER,LOX/LN2	300 GAL	B886	PRENTEX ALLOY FABRICATORS INC	WS-460	000	8,240.00	3655
005511	501	TRAILER LOX/LN2	300 GAL	B-888	PRENTEX ALLOY FABRICATORS INC	WS-400	T128	8,240.00	2330
005686	832	TRAILER,LOX/LN2	300 GAL	B-887	PRENTEX ALLOY FABRICATORS INC	WS-800	101	8,240.00	2330
839216	227	RECORDER	DASH IV	0J126	ASTRO-MED INC	WS-200	151	8,280.00	6625
839217	304	RECORDER	DASH IV	0J127	ASTRO-MED INC	WS-300	107	8,280.00	6625
323434	226	UNIT,HEATING	NONE	G54493-2	UNKNOWN	WS-430	000	8,324.00	4520
323447	404	HEATING UNIT,TRL. MTD.	NONE	NONE	MINN MINING & MFG STATIC	WS-150	YARD	8,345.00	4540
328731	252	CAMERA LOCAM	51-0003	2090	REDLAKE IMAGING CORP	WS-200	100A	8,365.00	6710
328732	252	CAMERA LOCAM	51-0003	2091	REDLAKE IMAGING CORP	WS-200	100A	8,365.00	6710
329162	252	CAMERA LOCAM	50-0002	455	REDLAKE IMAGING CORP	WS-200	100A	8,365.00	6710
323640	420	INTERFACE PERIPHERAL CONTROL	NONE	IR2358-82	MODULAR COMPUTER SYSTEMS INC	WS-400	BLK	8,385.00	7035
323670	420	INTERFACE CONTROL PERIPHERAL	NONE	IR-2982-83	MODULAR COMPUTER SYSTEMS INC	WS-300	BLK	8,385.00	7025
005634	221	CONDUCTIVITY DETECTOR SYSTEM	4420	91-622	O I CORP DBA O I ANALYTICAL	WS-203	146	8,424.00	6625
324797	204	BALANCE	NONE	26447	VOLAND CORP	WS-203	144	8,450.00	6670
838681	209	DATA ACQUISITION UNIT	3852A	2927A08321	HEWLETT-PACKARD CO	WS-203	138	8,450.00	7025
236183	221	DESORBER	14-6000-200	94005016	TEKMAR CO	WS-203	146	8,459.00	6640

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0839628	221	CHROMATOGRAPH	5890	3115A34640	HEWLETT-PACKARD CO	WS-203	146	8,498.00	6630
0325430	217	MICROSCOPE SYSTEM	M	4626445	ZEISS CARL-OPTISCHE WERKE	WS-203	116	8,500.00	6650
0327240	220	SPECTROMETER MASS QUADRAPOLE	NONE	BGD18 252/796	BALZARS	WS-203	131	8,500.00	6635
0018879	210	CALIBRATOR, PROBE	A1013	C10469265	AZONIX CORP	WS-203	138	8,535.00	6685
0839613	221	CONCENTRATOR, PURGE AND TRAP	LSC2000	91084005	TEKMAR CO	WS-200	STORG	8,547.00	6695
0838448	227	BORESCOPE	FBA6-140T	30439	MACHIDA AMERICA, INC.	WS-200	163	8,550.00	6650
0018493	227	FIBERSCOPE FLEXIBLE	1F8D4-20	2800078	OLYMPUS AMERICA INC	WS-200	163	8,560.00	3695
0324030	405	TRACER, CURVE	577	B061298	TEKTRONIX INC	WS-400	BKR2	8,572.00	6625
0323990	115	GRINDING MACHINE SURFACE	S3	725E	NORTON CO	WS-113	113F	8,657.00	3415
0325142	214	TABLE,RATE-OF-TURN	C181	838	GENISCO TECHNOLOGY CORP	WS-270	111	8,693.00	6680
1931498	832	WELD HEAD	SWS-5H-C	62256S	SWAGELOK	WS-801	000	8,727.00	3433
0706930	211	RF PLUG IN	86603A	1921A01447	HEWLETT-PACKARD CO	WS-203	108	8,750.00	6625
0324902	209	STANDARD PRESSURE	6000 SERIES	NONE	RUSKA INSTRUMENT CORP	WS-203	134	8,810.00	6685
0323980	228	LATHE 15-INCH	R15-5	28168	ACME-CLEVELAND SHELDON MACH DV	WS-200	LABCO	8,819.00	3416
1236217	230	COMPUTER	DEC3000-300	AB40801KS3	DIGITAL EQUIPMENT CORP	WS-201	139	8,836.00	7021
1931418	216	LENS, CAMERA	AF-S600MM	200974	NIKON CORP	WS-200	000	8,869.00	6760
0325444	217	RADIOGRAPHIC X-RAY PORTABLE	HX550760	14210	PHILIPS ELECTRONIC INSTRUMENTS	WS-203	122	8,875.00	6525
0838193	214	TABLE SYSTEM OPTICAL	RS-48-12	UNKNOWN	NEWPORT/KLINGER FRMLY NEWPORT	WS-201	134	8,958.00	6650
1295442	304	RECORDER, STRIP CHART	DMS1000	1494020	WESTERN GRAPHTEC INC	WS-300	000	8,995.00	6625
0328379	255	NOZZLE SUPERSONIC	CFVP081870-SF(M2)	26831	FLOW-DYNE ENGINEERING INC	WS-252	000	9,000.00	2845
1930937	401	VEHICLE, MOTOR HOME	HARVEST	M40CA9T509004	CHRYSLER CORP FLEET DIV	WS-400	YARDN	9,000.00	2310
1194409	211	MULTIMETER	1281	25706-9	WAVETEK CORP	WS-203	108	9,024.00	6625
0838079	216	ENLARGING SYSTEM WITH COMPUTER	450E-07-01	UNKNOWN	OMEGA INSTRUMENTS CO	WS-200	102	9,030.00	6740
0838990	237	RECORDER CHART	DS8606	600512	SOLTEC CORP	WS-201	137	9,072.00	6625
1005810	214	OSCILLOSCOPE	3323/41	DM5529002	PHILIPS	WS-201	134	9,125.00	6625
1550526	226	COMPRESSOR, AIR	12220160	1316	SIERRA PRECISION	WS-500	000	9,138.00	4310
1930645	834	UNINTERRUPTABLE POWER SUPPLY	N104S0212600	NONE	LIEBERT CORP	WS-250	000	9,140.00	7025
1446311	227	CLEAN ROOM	A2000	NONE	CLEAN ROOM PRODUCTS INC	WS-200	163	9,231.00	6636
1931896	201	GPS RECIEVER	3204A	904-00083-01	PRECISE CORP THE	WS-203	CAL	9,260.00	6675
1235962	209	CONTROLLER, PRESSURE	PPC1-1000G	288	DH INSTRUMENTS INC	WS-203	134	9,270.00	6685
1930268	420	ALPHASERVER, DIGITAL	54KHA-AA	N191303076	DIGITAL INTERFACE	WS-101	210	9,294.00	7021
1931619	201	MONITOR, PRESSURE	RPM4 A280M-L	172	DH INSTRUMENTS INC	WS-203	000	9,338.00	7025
0328190	405	OSCILLOSCOPE DIGITAL	320	87H00628	NICOLET INSTRUMENT CORP	WS-300	114A	9,358.00	6625
G019868	272	TANK/SHELL ASSY VACUUM	157858G1	NONE	LOCKHEED CP MISSILES & SPACE	WS-272	000	9,362.00	6760
1446381	223	WELD HEAD	CWS-IOH-A	70111	CAJON CO	WS-801	000	9,366.00	3431
1931499	832	WELD HEAD	SWS-10H-B	70546S	SWAGELOK	WS-801	000	9,366.00	3433
1235346	304	RECORDER, STRIP CHART	LR8100	42UA0700	YOKOGAWA ELECTRIC WORKS LTD	WS-300	000	9,403.00	6625
1235350	304	RECORDER STRIP CHART	LR8100	42UA0697	YOKOGAWA ELECTRIC WORKS LTD	WS-300	000	9,403.00	6625
1235351	304	RECORDER, STRIP CHART	LR8100	42UA0702	YOKOGAWA ELECTRIC WORKS LTD	WS-300	000	9,403.00	6625
1235353	304	RECORDER, STRIP CHART	LR8100	42UA0698	YOKOGAWA ELECTRIC WORKS LTD	WS-300	000	9,403.00	6625
1235355	304	RECORDER, STRIP CHART	LR8100	42UA0696	YOKOGAWA ELECTRIC WORKS LTD	WS-300	000	9,403.00	6625
1235358	304	RECORDER, STRIP CHART	LR8100	42UA0701	YOKOGAWA ELECTRIC WORKS LTD	WS-300	000	9,403.00	6625
1235359	405	RECORDER, STRIP CHART	LR8100	42UA0695	YOKOGAWA ELECTRIC WORKS LTD	WS-400	106	9,403.00	6625
0838907	214	SPECTROMETER	HR320	10958-3-90	JOBIN YVON INC(FORM INSTRUMTS.	WS-201	134	9,486.00	6650
1550973	221	PRESSURE VESSEL SYSTEM	4843	1139	PARR INSTRUMENT CO	WS-201	103A	9,486.00	6685
0323336	832	DEWAR 2200 GALLON MOBILE	NONE	PA-228	STEEL AND ALLOY TANK CO INC	WS-800	CRYO	9,500.00	3655
1930624	243	OSCILLOSCOPE	TDS754A	B011395	TEKTRONIX INC	WS-272	000	9,500.00	6650
1930625	243	OSCILLOSCOPE	TDS754A	B010865	TEKTRONIX INC	WS-201	137	9,500.00	6650
0329787	201	GENERATOR/INSERTER DIGITAL	1910	B021735	TEKTRONIX INC	WS-203	108	9,517.00	5820
0839422	227	CLEANROOM	PD0161	NONE	CLEAN ROOM PRODUCTS INC	WS-200	163	9,539.00	3694
0838748	240	COMPUTER	386/25	4935AR4B0104	COMPAQ COMPUTER CORP	WS-200	142	9,572.00	7021
1236387	221	DESORBER UNIT	146000-200	94179004	TEKMAR CO	WS-203	146	9,584.00	6630
1930183	220	DATA CONTROLLER UNIT	2000	012299-1	QCM RESEARCH CORP	WS-203	131	9,600.00	7025

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
931386	304	COMPOSITE VIDEO MATRIX SWITCH	8Y-3000	018677010028Y300503	AUTOPATCH XN TECHNOLOGIES	WS-300	102	9,642.00	6730
298527	272	LASER CONTROL SYSTEM	1380	4/10/1978	CORDIN CO	WS-272	SHED0	9,650.00	5860
839694	221	AUTO SAMPLER	14-2050-000	91029002	TEKMAR CO	WS-200	STORG	9,655.00	6630
236423	221	CONCENTRATOR, PURGE AND TRAP	143000000	94189005	TEKMAR CO	WS-200	STORG	9,695.00	6695
930349	226	PUMP, GAS BOOSTER	29498	65126-01	HASKEL INC F-HASKEL ENGR &	WS-460	000	9,728.00	6680
930682	420	COMPUTER	S-620G	901040		WS-101	000	9,750.00	7021
931898	201	STANDARD, POWER	M1130	2445	TEGAM INC.	WS-203	108	9,750.00	6685
551069	217	COMPUTER	NONE	963318	HEWLETT-PACKARD CO BOISE DIV	WS-203	123	9,800.00	7021
235317	221	SCREENING OVEN	04-10100-2	UNKNOWN	RADEX SOLO	WS-200	136	9,885.00	6640
551318	221	DIODE-ARRAY DETECTOR	G1315A	US64400763	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	9,890.00	6695
329811	201	COUNTER MAINFRAME	5345A	2816A12635	HEWLETT-PACKARD CO	WS-203	108	9,891.00	6625
325007	209	TESTER DEAD WEIGHT	2423	12654	RUSKA INSTRUMENT CORP	WS-203	134	9,938.00	6670
839165	301	CRANE, GANTRY	10T19-20	A030FW	COLUMBUS MCKINNON CORP	WS-300	YARD	9,978.00	3950
323444	501	DEWAR LIQUID HYDROGEN 150 GAL	NONE	3	CHEMETRON CP NAT'L CYLINDER DV	WS-400	000	9,985.00	3655
446292	227	DATA MANAGEMENT SYSTEM	DMS1000	1295030	WESTERN GRAPHTEC INC	WS-200	163	9,995.00	7025
931054	217	SYSTEM, X-RAY IMAGING	500-072	770-D	CYGNUS INSTRUMENTS	WS-203	123	9,995.00	6635
324390	832	OVEN LABORATORY TEST ELECTRIC	254-11437	5	LOCKHEED CP ELECTRONIC CO	WS-155	000	10,000.00	6636
324427	832	OVEN LABORATORY TEST ELECTRIC	254-11437	1	LOCKHEED CP ELECTRONIC CO	WS-155	000	10,000.00	6636
324440	832	OVEN LABORATORY TEST ELECTRIC	254-11437	3	LOCKHEED CP ELECTRONIC CO	WS-155	000	10,000.00	6636
324441	834	OVEN LABORATORY TEST ELECTRIC	254-11437	4	LOCKHEED CP ELECTRONIC CO	WS-833	CELL	10,000.00	6636
324534	207	MONITOR, COMMUNICATION	CE-5	634	CUSHMAN ELECTRONICS INC	WS-205	000	10,000.00	6625
325333	501	HEATER NITROGEN PURGE OXYGEN	DWG-434-11840	NONE	LOCKHEED CP ELECTRONIC CO	WS-400	000	10,000.00	1850
326211	501	HEATER NITROGEN PURGE FUEL	DWG-434-11840	NONE	LOCKHEED CP ELECTRONIC CO	WS-401	000	10,000.00	1850
326620	832	OVEN LAB TEST ELECTRIC	254-11437	2	LOCKHEED CP ELECTRONIC CO	WS-841	000	10,000.00	6636
328096	404	MOTOR ELECT. 100 HP W/PUMP	2A445USTGH1AC	31682	MARATHON ELECTRIC MFG CORP	WS-150	YARD	10,000.00	6105
838241	304	TRAILER INSTRUMENTATION	NONE	NONE	LOCKHEED ENGR & MGMT SERVICES	WS-201	SHB	10,000.00	2330
838405	215	DISK DRIVE UNIT	7946	2833E06426	HEWLETT-PACKARD CO	WS-203	108	10,000.00	7025
005717	832	SEMITRAILER	52E420042	10128	LA CROSSE TRAILER CORP	WS-800	CRYO	10,000.00	2330
235489	217	DISK DRIVE UNIT	AD1000	6239A33259	HEWLETT-PACKARD CO	WS-203	116	10,000.00	7025
235491	217	DISK DRIVE UNIT	400	6236A21447	HEWLETT-PACKARD CO	WS-203	116	10,000.00	7025
236295	223	TABLE,I BEAM	NONE	NONE	GENERAL RSCRH CP DYNATUP DIV	WS-800	105	10,000.00	6635
446201	401	CALIBRATION VESSEL	NONE	9172	SOUTHWEST WELDING AND MFG CO	WS-401	000	10,000.00	5430
446202	401	PROPELLANT SPHERE	NONE	9002	SOUTHWEST WELDING AND MFG CO	WS-NMTECH	SOCOR	10,000.00	5430
446222	115	ROLLER, POWER	BR504	9019	WEBB CORP F-REED EQUIP DIV	WS-113	SHOP	10,000.00	3422
551064	221	COMPUTER	D3978A	US62553722	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	10,000.00	7021
930312	832	SHEAR, HYDRAULIC	NH5210	214699	NATIONAL SHEETMETAL MACHINE	WS-801	000	10,000.00	3445
930581	401	CALIBRATION VESSEL	NONE	9173	SOUTHWEST WELDING AND MFG CO	WS-401	000	10,000.00	5430
024014	272	GENERATOR PULSE	130-271000	2732A01547	HEWLETT-PACKARD CO	WS-272	00000	10,000.00	6625
031408	272	CONTROLLER, ACMERA/SYNCHRONIZE	1376	4-842	CORDIN CO	WS-272	000	10,000.00	6710
551315	221	PUMP, QUATERNARY	G1311A	US70601634	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	10,136.00	6695
551316	221	PUMP, QUATERNARY	G1311A	US70601630	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	10,136.00	6695
328647	210	BATH, FLUIDIZED	FB-08C	182	TECHNE INC	WS-203	143	10,150.00	6640
329748	201	METER NOISE FIGURE	8970B	2812A00926	HEWLETT-PACKARD CO	WS-203	108	10,183.00	6625
325787	301	MEASURING SYSTEM LEAK RATE	14613	5274	VOLUMETRICS	WS-300	000	10,246.00	6680
550841	224	STAMPING MACHINE, METAL	ACEP-J2E	17990	DEFIANCE MACHINE AND TOOL CO	WS-200	116	10,294.00	3419
930220	221	SCALE	MT5	1118122572	METTLER INSTRUMENT CORP	WS-203	107	10,295.00	6670
295559	272	LOAD TENSIONER	C	709027	HYTORC DIV OF UNEX	WS-272	0000	10,380.00	6635
930426	217	SYSTEM, DIGITAL IMAGING	86-4000-M	549-E0MV-00254	BUEHLER LTD	WS-203	123	10,550.00	6760
550961	227	STORAGE DEVICE, DATA	6531RMDB	2522100021	WESTERN GRAPHTEC INC	WS-200	163	10,570.00	7025
236367	214	INTERFEROMETER	RC140	N0049809	BURLEIGH INSTRUMENTS INC	WS-201	134	10,580.00	6650
838302	221	AUTO SAMPLER	ALS2050	89093012	TEKMAR CO	WS-203	124	10,595.00	6630
551453	238	CLEAN ROOM	CAP577-10X12X8H	29546520	CLEAN ROOM PRODUCTS INC	WS-200	CLEAM	10,635.00	6636
551310	221	CONTROL SYSTEM,FLOW/TEMP/HUMID	HCS401	96603	MILLER-NELSON RESEARCH INC	WS-200	142	10,650.00	6695

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
0329662	226	MACHINE FINISHING	2C	2C-844	TULIP CORP	WS-400	411AM	10,698.00	3441
0839292	221	CHROMATOGRAPH, GAS	5890	LR-47359C	HEWLETT-PACKARD CO	WS-203	124	10,846.00	6630
0838172	221	CHROMATOGRAPH GAS	5890A	2750A16529	HEWLETT-PACKARD CO	WS-203	146	10,887.00	6630
0838173	221	CHROMATOGRAPH GAS	5890A	2750A16528	HEWLETT-PACKARD CO	WS-200	136A	10,887.00	6630
1295525	221	CHROMATOGRAPH, GAS	5890A	3336A56044	HEWLETT-PACKARD CO	WS-200	136A	10,887.00	6630
1931895	301	WELD HEAD	K875-2T	4028	ASTRO-ARC CO	WS-310	000	10,890.00	3431
0706928	211	GENERATOR SIGNAL	8660C	1504 A00142	HEWLETT-PACKARD CO	WS-203	108	10,910.00	6625
0326331	252	CAMERA,HYCAM K2S	NONE	122	REDLAKE IMAGING CORP	WS-200	100A	10,911.00	6710
0326477	252	CAMERA HYCAM	20E 115	123	REDLAKE IMAGING CORP	WS-200	100A	10,911.00	5820
0665265	272	CHAMBER VACUUM TEST	SPECIAL	NONE	MDC VACUUM PRODUCTS CORP	WS-203	SHB0	10,950.00	6636
0838025	201	CALIBRATOR, DC	335D	4420001	FLUKE CORP	WS-203	108	10,951.00	6625
1930304	227	RECORDER	DMS1000	1698014	WESTERN GRAPHTEC INC	WS-200	152A	10,995.00	6625
0327521	408	PROBE CO-50	V1540-10	1972	WELCH ALLYN INC	WS-400	106	11,000.00	6685
1235975	227	MAINFRAME DATA ACQUISITION	SCX1-1001	1176	NATIONAL INSTRUMENT CO INC	WS-200	PRTBL	11,000.00	7025
1551729	115	ENGRAVING MACHINE	7200	401.837/47	NEW HERMES INC ENGRAVERS DIV	WS-113	SHOP	11,000.00	3405
0329755	201	SYNTHESIZER/LEVEL GENERATOR	3335A	2516A04582	HEWLETT-PACKARD CO	WS-203	108	11,021.00	6625
0839375	221	CHROMATOGRAPH	5890	2950A27102	HEWLETT-PACKARD CO	WS-200	142	11,030.00	6630
1236004	220	SPECTROMETER	1D	93	JOBIN YVON	WS-203	136A	11,045.00	6650
0839920	221	OVEN	L0-8	1661	B-M-A INC	WS-203	146	11,080.00	6640
1929991	401	METAL FORMING MACHINE	632	480	PARKER HYDRA-TOOL	WS-411	TSTAN	11,152.00	3449
1931116	115	PROJECTOR, DESKTOP MEASURING	HB400	50866	MOSLER SAFE CO THE	WS-113	FAB	11,299.00	6730
0327182	202	FORK LIFT	H40XL	A177B11194F	HYSTER CO	WS-203	151	11,302.00	3930
0325378	221	CHROMATOGRAPH GAS	5790A	2149A11047	HEWLETT-PACKARD CO	WS-200	STORG	11,304.00	6635
1551135	408	RECORDER, INTELLIGENT PEN	37081	46UA0752	YOKOGAWA ELECTRIC WORKS LTD	WS-400	105	11,328.00	7035
1551136	408	RECORDER, INTELLIGENT PEN	37081	46UA0753	YOKOGAWA ELECTRIC WORKS LTD	WS 400	105	11,328.00	7035
1931670	201	AMPLIFIER	5725A	8601018	FLUKE CORP	WS-203	108	11,374.00	6695
0329340	243	LOGIC ANALYSIS SYSTEM	16500A	306	HEWLETT-PACKARD CO	WS-201	136	11,408.00	7025
1236107	304	RECORDER	370181	43UA0756	YOKOGAWA CORP OF AMERICA	WS-300	000	11,430.00	6625
1236108	408	RECORDER	370181	43UA0758	YOKOGAWA CORP OF AMERICA	WS-400	106	11,430.00	6625
1236109	304	RECORDER	370181	43UA0757	YOKOGAWA CORP OF AMERICA	WS-300	000	11,430.00	6625
1236110	227	RECORDER	370181	43UA0755	YOKOGAWA CORP OF AMERICA	WS-200	152	11,430.00	6625
1295664	250	ANALYZER, PHOTO	224SMK8	60563	ATHENA	WS-255	000	11,475.00	6730
1930631	304	COMMAND CONSOLE	NONE	NONE	EVANS CONSOLES INC	WS-300	BLKHO	11,488.00	7125
1930698	227	RACK, ORCA#1	UNKNOWN	NONE	WHITE SANDS TEST FACILITY	WS-120C	OHMS	11,533.00	8145
1236336	221	ENVIRONMENTAL CHAMBER VACUUM	CV18	3020	CVC PROD'S F-CONSOLIDATED VAC	WS-203	141	11,594.00	6636
0250362	201	COUNTER ELECTRONIC	5345A	2514-A11-523	HEWLETT-PACKARD CO	WS-203	108	11,600.00	6625
1235341	221	CONTROLLER	RCI88	611.790/400417	SYSTAG (SYSTEM TECHNIK)	WS-200	136	11,620.00	6630
0838141	220	GENERATOR PURE AIR	737-16	1002	AADCO INSTRUMENTS INC	WS-203	130	11,750.00	6636
1931899	201	STANDARD, POWER	F1130	2446	TEGAM INC.	WS-203	108	11,750.00	6685
0838994	214	HOLOGRAPHIC FILM SYSTEM	100-70	UNKNOWN	KEYSTONE FABRICATING CO	WS-201	135	11,846.00	6740
0838250	216	LIGHT SYSTEM SCANNING	P5021	NONE	IRVINE OPTICAL	WS-200	102	11,850.00	6760
1235620	214	DATA ACQUISITION SYS., MODULAR	8013A	A45096	LECROY CORP	WS-201	134	11,891.00	7025
0327298	115	SAW MECHANICAL BAND	MARK-1	824259-W	ARMSTRONG-BLUM MFG CO	WS-113	113F	11,900.00	3405
1931179	227	OVEN	C80V310	28978	GRUENBERG OVEN CO INC	WS-200	NHB	11,952.00	7310
0772814	201	GENERATOR OSCILLOSCOPE CALIBRA	CG551AP	B020301	TEKTRONIX INC	WS-203	108	12,000.00	6625
1551447	227	FIBERSCOPE	IF8C5-20	NONE	OLYMPUS CORP INDUSTRIAL FIBER	WS-200	163	12,103.00	6035
0328396	405	SPECTRUM ANALYZER	140T	2237A02885	HEWLETT-PACKARD CO	WS-400	106	12,215.00	6625
0328064	252	CAMERA HYCAM	41-0064	345	REDLAKE IMAGING CORP	WS-200	100A	12,428.00	6710
0329171	501	SHOWER ILC PORTABLE	16601	H9-3187	HEMCO CORP	WS-403	000	12,475.00	4230
0838082	501	SHOWER ILC PORTABLE	4FAC-882177	NONE	WHITE SANDS TEST FACILITY	WS-401	000	12,475.00	4230
0838083	501	SHOWER ILC PORTABLE	4FAC-882177	NONE	WHITE SANDS TEST FACILITY	WS-302	000	12,475.00	4230
0838084	501	SHOWER ILC PORTABLE	4FAC-882177	NONE	WHITE SANDS TEST FACILITY	WS-403	000	12,475.00	4230
0839783	832	CONING/THREADING MACHINE	CTM	92-00050	AUTOCLAVE ENGINEERS INC	WS-801	000	12,546.00	3413

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
0839279	405	ANALYZER, WAVEFORM DISTURBANCE	656A	772146410	DRANETZ TECHNOLOGIES F-DRANETZ	WS-400	BKR2	12,550.00	6625
1235908	242	VIDEO SCOPE	162700	42	INSTRUMENT TECHNOLOGY INC	WS-272	GUNRM	12,550.00	5820
0839317	252	CAMERA HYCAM	41-0064	515	REDLAKE IMAGING CORP	WS-200	100A	12,656.00	6710
0839318	252	CAMERA HYCAM	41-0064	514	REDLAKE IMAGING CORP	WS-200	100A	12,656.00	6710
1550769	420	CONTROLLER	CRD5000	D001071	CMD TECHNOLOGY INC	WS-300	BLK	12,664.00	7025
1550770	420	CONTROLLER	CRD5000	C001478	CMD TECHNOLOGY INC	WS-300	BLK	12,664.00	7025
1550771	420	CONTROLLER	CRD5000	C001191	CMD TECHNOLOGY INC	WS-101	210	12,664.00	7025
0840009	834	RECORDER	300B1506-17	1707	GOULD INC TEST & MEASURE GROUP	WS-252	000	12,727.00	6625
1931497	832	WELDER	M100-1-1	M004063	SWAGELOK	WS-801	000	12,750.00	3431
0323313	404	TRAILER,TANK TYPE	ICC-MC-311-111	L-16819-5000 GAL	STAINLESS STEEL PROD'S INC	WS-315	YARD	12,780.00	2330
1236097	221	AUTOSAMPLER	14-5200-000	93250017	TEKMAR CO	WS-150	00000	12,820.00	6640
1005846	221	PHOTOACOUSTIC DETECTOR	840-123400	11040	NICOLET INSTRUMENT CORP	WS-200	128	12,865.00	6630
0323963	115	SHEAR,SQARING POWER	NONE	60108	SQUARINE	WS-113	113F	12,878.00	3441
1550738	227	RECORDER	370181	46UA0423	YOKOGAWA ELECTRIC WORKS LTD	WS-200	152	12,890.00	6625
0328063	252	CAMERA HYCAM	41-0064	344	REDLAKE IMAGING CORP	WS-200	100A	12,900.00	6710
0645465	214	SPECTROMETER	1120	305	PERKIN-ELMER CORP THE	WS-201	134	12,970.00	6625
0328254	252	RECORDER VIDEO TAPE	VTR V-32	762-147	NAC INC	WS-200	100A	13,000.00	5820
0329678	201	COMPUTER	330C	2801A04406	HEWLETT-PACKARD CO	WS-203	108	13,000.00	7021
1446130	221	CHROMATOGRAPH, GAS	5890	NONE	HEWLETT-PACKARD CO BOISE DIV	WS-203	146	13,082.00	6630
1931903	221	SYSTEM, XPS SCANNER	147	10532	SURFACE ANALYSIS SYSTEM ENG.	WS-203	116	13,160.00	7025
1931071	227	MACHINE, FINISHING	2C-1-18	02-08-003	TULIP CORP	WS-200	NHB	13,190.00	3426
1256667	420	SYSTEM, DATA ACQUISITION	220	339823	TUSTIN ELECTRONICS CO	WS-101	210	13,200.00	6625
1005425	218	OVEN	DCC206C	22X449-91	BLUE M ELECTRIC CO	WS-200	LABCO	13,203.00	6640
1446123	227	COMPRESSION TESTER	NONE	NONE	COMTEN INDUSTRIES	WS-200	CTF	13,272.00	6635
1235715	221	INTERFACE, ELECTROCHEMICAL	SI1286	37975	SCHLUMBARGER TECHNOLOGIES INC	WS-200	143	13,387.00	6630
0839483	831	CHAMBER, TEMPERATURE/HUMIDITY	PLA2GP	89	ESPEC CORP	WS-803	000	13,551.00	6640
1295518	223	PUMP, HIGH PRESSURE	P30-05CX02	P94-1492-1	HYDRO-PAC INC	WS-270	000	13,557.00	4320
0839220	304	MARKING SYSTEM	ACEP3C-ML50	5661	DEFIANCE MACHINE AND TOOL CO	WS-300	BASMT	13,625.00	3611
0325434	217	TESTER,10000 LB CAP	TT-C	1385	INSTRON CORP	WS-203	123	13,690.00	6635
1930568	217	PRECISION SAW	ACCUTOM-50	5010360	STRUERS K/S	WS-203	123	13,970.00	5220
1235518	220	CHAMBER, ENVIRONMENTAL	BTRS	SB10883-5	TENNEY ENGINEERING INC	WS-203	130	14,000.00	6636
0324848	204	MEASURING MACHINE	120LM	120LM2	STARRETT L S CO WEBBER GAGE DV	WS-203	144	14,004.00	6680
1298525	272	CONTROL TURBIN SPEED	405	4/10/1976	CORDIN CO	WS-272	0000	14,287.00	6625
1930226	221	CHROMATOGRAPH, GAS	HP6890	US00028584	HEWLETT-PACKARD CO BOISE DIV	WS-203	146	14,290.00	6665
0838679	834	CONVERTER	278-1M9	9918-01	ABACUS CONTROLS INC	WS-800	101	14,317.00	6130
0328621	221	CHROMATOGRAPH ION	4000I	871641	DIONEX CORPORATION	WS-200	STORG	14,350.00	6630
1551298	831	CALORIMETER	1261CLEA	1663	PARR INSTRUMENT CO	WS-800	116	14,400.00	6685
1550994	115	MILLING MACHINE	FTV2	39476	REPUBLIC MACHINERY CO INC DBA	WS-113	SHOP	14,417.00	3417
0838324	115	CUTTER GRINDER	BA900	26170YD	LEE K O CO	WS-113	113F	14,470.00	3415
0327610	305	ARCS, BAY1	NONE	NONE	LOCKHEED CP LOCKHEED-GEORGIA	WS-300	000	14,488.00	7025
0327611	305	ARCS, BAY3	NONE	NONE	LOCKHEED CP LOCKHEED-GEORGIA	WS-300	000	14,488.00	7025
0327612	305	ARCS, BAY2	NONE	NONE	LOCKHEED CP LOCKHEED-GEORGIA	WS-300	000	14,488.00	7025
0327613	305	FRCS BAY1	NONE	NONE	LOCKHEED CP LOCKHEED-GEORGIA	WS-300	000	14,488.00	7025
0327614	305	FRCS BAY2	NONE	NONE	LOCKHEED CP LOCKHEED-GEORGIA	WS-300	000	14,488.00	7025
0327617	305	FRCS BAY4	NONE	NONE	LOCKHEED CP LOCKHEED-GEORGIA	WS-300	000	14,488.00	7025
0839222	227	WELDER	SB4-100	215	ASTRO-ARC CO	WS-310	000	14,672.00	3431
0329626	832	SYSTEM TEST OXYGEN CRITICAL	NONE	HFTA871	STANTON REDCROFT LTD	WS-800	116	14,856.00	6680
0329760	201	TEST SET NOISE FIGURE	8971B	2716A00301	HEWLETT-PACKARD CO	WS-203	108	14,884.00	6625
0323523	408	CABINET, PATCH PANEL	1	1	GRUMMAN AEROSPACE CORP	WS-400	106	15,000.00	7025
0329101	408	CONTROL BOX RELAY	D-455	1	GRUMMAN AEROSPACE CORP	WS-400	BSMT	15,000.00	5963
0329102	408	JUNCTION BOX SERVICE	T1JB3	NONE	GRUMMAN AEROSPACE CORP	WS-400	BSMT	15,000.00	6110
0329103	408	CONTROL CABINET	B1JB4	7	GRUMMAN AEROSPACE CORP	WS-400	BSMT	15,000.00	6110
0329107	408	PATCH CABINET	GAC	45093323	GRUMMAN AEROSPACE CORP	WS-400	BKR1	15,000.00	6625

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
0329119	408	JET DRIVER UNIT	LSC410-62740-1	1	HAZLETINE CORP INDUSTRIAL PROD	WS-400	BKR2	15,000.00	6110
0329194	408	CABINET, POWER DISTRIBUTION	C14-602	1	WHITTAKER CORP ELECTRONIC SYS	WS-400	BKR2	15,000.00	6110
0329195	408	CABINET, TRANSITION	T1JB1	1	GRUMMAN AEROSPACE CORP	WS-400	BSMT	15,000.00	6110
0329196	408	CABINET, TRANSITION	T1JB1	7	GRUMMAN AEROSPACE CORP	WS-400	BSMT	15,000.00	6110
0329631	201	DISPLAY PROCESSOR	85101B	2812A04068	HEWLETT-PACKARD CO	WS-203	108	15,000.00	7025
1235488	217	COMPUTER	UNKNOWN	UNKNOWN	PERKIN-ELMER CORP THE	WS-203	116	15,000.00	7021
0839902	221	THERMOMECHANICAL ANALYZER	TMA120	507P0401	SEIKO INSTRUMENTS USA	WS-200	128	15,080.00	6630
0839153	405	ANALYZER, WAVEFORM	6100	1645	DATA PRECISION	WS-400	106	15,091.00	6625
0839394	226	BENDER, TUBE	420	1025	PARKER-HANNIFIN CORP	WS-200	NHB	15,140.00	3441
0326233	226	BENDING MACHINE, PIPE-CONDUIT	NONE	64308	TELEDYNE PINES	WS-200	NHB	15,190.00	3441
1930510	250	SYSTEM, DIGITAL IMAGING	C-106	1398	BETTER ENGINEERING	WS-200	203	15,210.00	6730
1191575	211	SYNTHESIZER/LEVEL GENERATOR	3335A	2843A05650	HEWLETT-PACKARD CO	WS-203	108	15,237.00	6625
0327062	218	DEGREASER ULTRASONIC VAPOR	DS2024-LW	13221	DELTA SONICS INC	WS-155	SHED	15,350.00	4940
1551233	227	CLEAN ROOM	A2000	NONE	CLEAN ROOM PRODUCTS INC	WS-200	CTF	15,400.00	6636
0559799	115	LATHE ENGINE MANUAL	EE	NONE	LODGE AND SHIPLEY CO	WS-113	113F	15,475.00	3416
1236061	221	ATMOSPHERE BOX	HE-493	014786-1867	VACUUM/ATMOSPHERES CO F-ALLEN	WS-200	142	15,500.00	6636
1930833	420	SERVER	CHAS-SC5000-SYR-ITL	GSRC080407	INTEL CORPORATION	WS-101	000	15,684.00	7021
0325888	501	TRAILER,2-2500 GAL TANKS	ICC-MC-307	1565691	LUBBOCK MFG	WS-200	CTF	15,700.00	2330
1551698	115	VIDEO INSP. & GAUGING SYST.	KC77	113178	SONY CORP	WS-113	SHOP	15,700.00	6650
1295449	220	MICROBALANCE SYSTEM QUARTZ CRY	72-DET	70	FARADAY INCORPORATED	WS-203	STORA	15,705.00	6635
0839412	115	SAW, BAND	8MARK2	825922W	ARMSTRONG-BLUM MFG CO	WS-113	113F	15,772.00	3405
0839701	406	COMPUTER	486-25	65891051	INDUSTRIAL DATA SYSTEMS INC	WS-300	BLKHS	15,854.00	7021
1295450	220	MICROBALANCE SYSTEM QUARTZ	72-DET	83	FARADAY INCORPORATED	WS-203	131	15,900.00	6670
0327843	207	ANALYZER, COMMUNICATION SYSTEM	R2004D	415KLL0040	MOTOROLA INC	WS-203	MOBIL	15,908.00	6625
0327175	228	HYDRAULIC TEST UNIT	281-13517	NONE	LOCKHEED CP LOCKHEED-GEORGIA	WS-200	LABCO	15,961.00	4320
0838628	239	COMPUTER	PM32B-XY	AB14200IX7	DIGITAL EQUIPMENT CORP	WS-201	136	15,998.00	7021
1236165	301	BUILDING, PORTABLE	28X40	NONE	MORGAN BUILDING SYSTEMS	WS-300	YARD	16,000.00	5410
1446205	221	ANALYZER, ORGANIC CARBON	DC190	NONE AVAILABLE	ROSEMOUNT ANALYTICAL	WS-200	STORG	16,000.00	6630
0325460	221	SPECTROPHOTOMETER ATOMIC ABSOR	2380	121567	PERKIN-ELMER CORP THE	WS-200	128	16,140.00	6635
1235808	201	AMPLIFIER, TRANSCONDUCTANCE	4600	25891-3	WAVETEK CORP	WS-203	108	16,148.00	6625
1235809	201	CALIBRATOR, VOLTMETER	4808	25969-1	WAVETEK CORP	WS-203	108	16,148.00	6625
0838051	407	SWITCHER VIDEO	VAS-2000	UNKNOWN	TELE-ENGINEERING CORP	WS-300	000	16,241.00	5820
0329713	201	CONVERTOR MICROWAVE	11793A	2710A00831	HEWLETT-PACKARD CO	WS-203	108	16,278.00	5820
0324264	220	VACUUM SYSTEM 6-INCH AUTOMATIC	CV-600A	NONE	COOKE VACUUM PRODUCTS INC	WS-203	131	16,293.00	4310
1930348	221	CHEMICAL MEASURMENT UNIT	SI1280B	179428	SOLARTRON INSTR DV SANGAMO	WS-200	143	16,300.00	6630
0838828	237	DATA ACQUISITION SYS., MODULAR	1434A	A67098	LECROY CORP	WS-800	HFTA	16,320.00	7025
0329843	201	MEASUREMENT SET, VIDEO	VM700	B01085	TEKTRONIX INC	WS-203	108	16,526.00	6625
1551701	210	ENVIRONMENTAL CHANBER	T10RS	2612402	TENNEY ENGINEERING INC	WS-203	143	16,585.00	6636
0323341	238	VAN STEP CHEVROLET SERIES P30	CP31442	1GCHP32M0C3304285	GENERAL MOTORS CORP CHEVROLET	WS-200	LABC	16,600.00	2320
0323342	201	VAN STEP CHEVROLET SERIES P30	CP31442	1GCHP32M9C3304253	GENERAL MOTORS CORP CHEVROLET	WS-203	108	16,600.00	2320
0839395	221	CHROMATOGRAPH GAS	5890	3033A31644	HEWLETT-PACKARD CO	WS-203	146	16,668.00	6630
0324265	220	ENVIRONMENTAL CHAMBER LOW TEMP	WT27300	11-651117	STARRETT L S CO WEBBER GAGE DV	WS-150	OTSD	16,730.00	6636
1931164	115	SAW, METAL CUTTING BAND	SERIES 8 MARK II	829218	ARMSTRONG-BLUM MFG CO	WS-113	SHOP	16,775.00	3405
1550613	420	CONTROLLER	CRD5000	NONE	CMD TECHNOLOGY INC	WS-400	BLK	16,903.00	7025
1550614	420	CONTROLLER	CRD5000	NONE	CMD TECHNOLOGY INC	WS-400	BLK	16,903.00	7025
0839904	221	COMPUTER	SSC5200H	504P0417	SEIKO INSTRUMENTS USA	WS-200	128	17,000.00	7021
1158082	420	SYSTEM, DATA ACQUISITION	2100SERIES100/4	339743	TUSTIN ELECTRONICS CO	WS-101	210	17,000.00	6625
1446436	420	INTERFACE, MODULE, REMOTE	611-2A	339940	TUSTIN ELECTRONICS CO	WS-300	BLK	17,000.00	7025
1446437	420	INTERFACE, MODULE, REMOTE	611-2A	334491	TUSTIN ELECTRONICS CO	WS-300	BLK	17,000.00	7025
1550634	420	INTERFACE, MODULE, REMOTE	611-2A	339964	TUSTIN ELECTRONICS CO	WS-400	BLK	17,000.00	7025
1550636	420	INTERFACE, MODULE, REMOTE	611-2A	339963	TUSTIN ELECTRONICS CO	WS-400	BLK	17,000.00	7025
1931634	243	SYSTEM, DATA ACQUISITION	NI PXI-1042	V06X40C22	NATIONAL INSTRUMENT CO INC	WS-272	000	17,200.00	7025
1930827	217	SYSTEM, STEREOMICROSCOPE	SZX12	0L07570	OLYMPUS AMERICA INC	WS-203	123	17,626.00	6650

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0325523	217	PROCESSOR X-OMAT INDUSTRIAL	B, CAT #1461284	NONE	EASTMAN KODAK CO APPARATUS DIV	WS-203	121	17,733.00	6740
.295439	115	LATHE, METAL	VS MASTER	170	COLCHESTER LATHE CO INC	WS-113	SHOP	17,770.00	3408
.931647	204	SCALE, BALANCE	UMX5	1125101541	METTLER INSTRUMENT CORP	WS-203	144	17,940.00	6670
0328066	201	CALIBRATOR, PROGRAMMABLE	4700	16797-6	DATRON SYSTEMS INC F RADTEC	WS-203	108	17,985.00	6625
.931803	217	SYSTEM, ULTRASONIC DETECTOR	EPOCH 4	40213206	PANAMETRICS INC	WS-203	000	18,106.00	6635
0328527	221	SPECTROMETER	5SXC	8703113	NICOLET INSTRUMENT CORP	WS-200	136A	18,240.00	6650
.446435	420	MULTIPLEXER	410-10A	339945	TUSTIN ELECTRONICS CO	WS-300	BLK	18,260.00	7025
.446439	420	MULTIPLEXER	410-10A	339944	TUSTIN ELECTRONICS CO	WS-300	BLK	18,260.00	7025
550635	420	MULTIPLEXER	410-10A	339967	TUSTIN ELECTRONICS CO	WS-400	BLK	18,260.00	7025
550638	420	MULTIPLEXER	410-10A	339969	TUSTIN ELECTRONICS CO	WS-400	BLK	18,260.00	7025
930622	831	CAMERA	ENCORE	70106	OLYMPUS CORP INDUSTRIAL FIBER	WS-800	131	18,344.00	6720
551454	305	TENSION WINDER/CLEANER	632	281	BOW INDUSTRIES INC	WS-150	#1197	18,393.00	7035
551455	305	TENSION WINDER/CLEANER	632	199	BOW INDUSTRIES INC	WS-150	#1197	18,393.00	7035
0839155	214	SPECTROMETER INFRARED, FT	101301-1	105	MICHELSON CO	WS-201	134	18,440.00	5855
1931369	252	PHOTO COLOR DIGITAL PRINTER	ML-500	ML-5000251002	EASTMAN KODAK CO	WS-200	102A	18,495.00	6740
1931370	252	PHOTO COLOR DIGITAL PRINTER	ML-500	ML-5000231006	EASTMAN KODAK CO	WS-200	000	18,495.00	6740
1930507	220	PUMP, DRY CHEM	DL80 COBRA	C0027000146	ATELIERS BUSCH	WS-203	130	18,500.00	3040
1930508	220	PUMP, DRY CHEM	DL80 COBRA	C0027000367	ATELIERS BUSCH	WS-203	130	18,500.00	3040
1446438	420	MULTIPLEXER	450-1	339943	TUSTIN ELECTRONICS CO	WS-300	BLK	18,560.00	7025
1446440	420	MULTIPLEXER	450-1	339942	TUSTIN ELECTRONICS CO	WS-300	BLK	18,560.00	7025
1550633	420	MULTIPLEXER	450-1	339965	TUSTIN ELECTRONICS CO	WS-400	BLK	18,560.00	7025
1550637	420	MULTIPLEXER	450-1	339966	TUSTIN ELECTRONICS CO	WS-400	BLK	18,560.00	7025
1930699	227	RACK, ORCA#2	UNKNOWN	NONE	WHITE SANDS TEST FACILITY	WS-120C	OHMS	18,598.00	8145
0838223	227	TRAILER WASTE WATER 600 GALLON	NONE	296	WSF INDUSTRIES INC	WS-200	CTF	18,951.00	5430
1295589	237	RECORDER, STRIP CHART	DMS1000	2094017	WESTERN GRAPHTEC INC	WS-800	HFTA	18,975.00	6625
0326416	217	INTENSIFIER IMAGE	II 309H	10566	SCIENCE APPLICATIONS INT'L CP	WS-203	122	19,000.00	6635
1551345	214	OSCILLOSCOPE	TDS754A	B012115	TEKTRONIX INC	WS-201	135	19,014.00	6625
0329956	407	SWITCHER VIDEO	VAS-2000	02-808-0471	TELE-ENGINEERING CORP	WS-300	114A	19,045.00	5820
1930104	201	INSTRUMENT CALIBRATOR	5520A	7160211	FLUKE CORP	WS-203	108	19,078.00	6625
1295522	209	CONTROLLER, PRESSURE	PPCK-P10R	210	DH INSTRUMENTS INC	WS-203	134	19,131.00	6685
0325443	217	X-RAY PORTABLE 60-300KV	9421-070-04302	12-0009	PHILIPS ELECTRONIC INSTRUMENTS	WS-203	120	19,150.00	3695
0839996	201	OSCILLOSCOPE CALIBRATER	CG5011	B010354	TEKTRONIX INC	WS-203	108	19,361.00	6625
1005781	217	MICROHARDNESS TESTER	B240	922436	WILSON INSTRUMENTS DIV OF SPMI	WS-203	116	19,371.00	6635
0328918	501	ASPIRATOR, OXIDIZER	NONE	T-200	LOCKHEED ENGR & MGMT SERVICES	WS-301	000	19,473.00	1850
0328919	501	ASPIRATOR, FUEL	NONE	T-202	LOCKHEED ENGR & MGMT SERVICES	WS-301	000	19,473.00	1850
0839019	501	ASPIRATOR, OXIDIZER	NONE	T-204	LOCKHEED ENGR & MGMT SERVICES	WS-301	000	19,473.00	1850
0839020	501	ASPIRATOR, FUEL	NONE	T-205	LOCKHEED ENGR & MGMT SERVICES	WS-301	000	19,473.00	1850
0839021	501	ASPIRATOR, OXIDIZER	NONE	T-220	LOCKHEED ENGR & MGMT SERVICES	WS-403	000	19,473.00	1850
0839022	501	ASPIRATOR, FUEL	NONE	T-221	LOCKHEED ENGR & MGMT SERVICES	WS-403	000	19,473.00	1850
0839023	501	ASPIRATOR, FUEL	NONE	T-203	LOCKHEED ENGR & MGMT SERVICES	WS-401	000	19,473.00	1850
0839024	501	ASPIRATOR, OXIDIZER	NONE	T-201	LOCKHEED ENGR & MGMT SERVICES	WS-401	000	19,473.00	1850
1550954	218	ANALYZER, CARBON	DC190	NONE	DOHRMANN DIV, ROSEMOUNT INC	WS-200	117	19,500.00	6630
1551597	218	ANALYZER, TEMPERATURE	DC190	NONE	DOHRMANN DIV, ROSEMOUNT INC	WS-200	144	19,500.00	6685
0173095	404	PUMP, SUMP	404PU048-01	407691	GOULDS PUMPS INC	WS-448	YARD	19,512.00	4320
G024015	272	GENERATOR PULSE	130-233000	2541A01843	HEWLETT-PACKARD CO	WS-272	000	19,625.00	6625
G024016	272	GENERATOR PULSE	130-233000	2541A01845	HEWLETT-PACKARD CO	WS-272	000	19,625.00	6625
G024018	272	GENERATOR PULSE	130-233000	2541A01844	HEWLETT-PACKARD CO	WS-272	000	19,625.00	6625
1295585	227	RECORDER, STRIP CHART	DMS1000	2094011	WESTERN GRAPHTEC INC	WS-200	163	19,720.00	6625
1931949	218	POLISHER, ELECTRO	43SL-001C-100FBRX	24701	PROCESS EQUIPMENT CO	WS-200	CLEAN	19,925.00	3426
1931770	407	SYSTEM, MOTION IMAGING CAMERA	40113	1038	SPEEDVISION TECH	WS-400	000	19,945.00	6710
0323474	408	CONTROL STA.,FACILITY PROP OX	10646603	2	GRUMMAN AEROSPACE CORP	WS-400	105	20,000.00	6636
0323496	408	CONTROL CONSOLE	10645801	1	GRUMMAN AEROSPACE CORP	WS-400	105	20,000.00	6636
0323589	408	CONSOLE CAMERA STAND SUPPORT	NONE	NONE	GRUMMAN AEROSPACE CORP	WS-400	BKR2	20,000.00	3695

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0326476	252	CAMERA, VIDEO	SP2020	2280	EASTMAN KODAK CO APPARATUS DIV	WS-200	100A	20,000.00	5820
0327061	408	CONTROL STA,FACILITY,PROP FUEL	10646601	1	GRUMMAN AEROSPACE CORP	WS-400	105	20,000.00	6636
0329634	201	DETECTOR IF	85102B	2643A04057	HEWLETT-PACKARD CO	WS-203	108	20,000.00	7025
0838224	404	HEAT EXCHANGER	NONE	NONE	WSF INDUSTRIES INC	WS-448	YARD	20,000.00	4420
1235716	221	ANALYZER, INPEDANCE GAIN PHASE	SI1260	34182	SCHLUMBARGER TECHNOLOGIES INC	WS-200	143	20,000.00	6630
1235946	9	PROJECTILE MOTION SYSTEM	NONE	NONE	WHITE SANDS TEST FACILITY	WS-400	HALL	20,051.00	6650
1931605	407	PANEL, REMOTE H2 SENSING	S72-1315-4	NONE	ACL-FILCO CORP A SCITECH SUB	WS-150	000	20,300.00	6665
0327615	305	FRCS BAY3	NONE	NONE	LOCKHEED CP LOCKHEED-GEORGIA	WS-300	000	20,488.00	7025
0328206	221	CHROMATOGRAPH	SIGMA 2000	2041	PERKIN-ELMER CORP THE	WS-150	150	20,675.00	6630
0838831	237	DATA ACQUISITION SYS., MODULAR	1434A	A67050	LECROY CORP	WS-800	208A	20,731.00	7025
0838830	240	DATA ACQUISITION SYS., MODULAR	1434A	A38571	LECROY CORP	WS-700	MORGN	20,811.00	7025
1930032	115	MACHINE, MILLING	NONE	166149	BRIDGEPORT MACHINES	WS-113	SHOP	21,000.00	3417
1930033	115	MACHINE, MILLING	NONE	166150	BRIDGEPORT MACHINES	WS-113	SHOP	21,000.00	3417
1930034	115	MACHINE, MILLING	NONE	166142	BRIDGEPORT MACHINES	WS-113	SHOP	21,000.00	3417
0329655	405	RECORDING SYSTEM	512	UNKNOWN	BETA PRODUCTS INC	WS-400	BKR2	21,160.00	6625
0326410	217	X-RAY UNIT,RADIOGRAPHIC	MG-150	24077	PHILIPS ELECTRONIC INSTRUMENTS	WS-203	120	21,247.00	3695
1931920	221	SYSTEM, GC NETWORK	6890	US10432002	AGILE CORP	WS-201	000	21,379.00	7021
1005617	217	ACOUSTIC EMISSION SYSTEM	320	152	PHYSICAL ACOUSTICS CORP	WS-203	123	21,446.00	6695
1930541	170	OPTICAL COMPARITOR	HB400CNC	50421	STARRETT L S THE	WS-113	121	21,895.00	6035
1446430	420	SERVER, ALPHA	PB7RDXA	NI544R4982	DIGITAL SYSTEMS INC	WS-400	BLK	21,905.00	7025
1446433	420	SERVER, ALPHA	PB7RDXA	NI544R4981	DIGITAL SYSTEMS INC	WS-300	BLK	21,905.00	7025
1550595	420	ALPHA SERVER	PB7RFXA	NI610T1667	DIGITAL EQUIPMENT CORP	WS-300	BLK	21,905.00	7025
1550600	420	ALPHA SERVER	PB7RFXA	NI611T1902	DIGITAL EQUIPMENT CORP	WS-400	BLK	21,905.00	7025
0324414	204	BALANCE	JUPITER 1000	15413	VOLAND CORP	WS-203	144	22,000.00	6670
1295531	221	DETECTOR, INFRARED	5965B	2950A00320	HEWLETT-PACKARD CO BOISE DIV	WS-203	146	22,050.00	6695
1005508	501	RECHARGER NITROGEN TRAILER MTD	RA-3	2	CORDON INTERNATIONAL CORP	WS-150	000	22,064.00	3655
1005510	501	RECHARGER NITROGEN TRAILER MTD	RA-3	3	CORDON INTERNATIONAL CORP	WS-401	000	22,064.00	3655
1930418	501	RECHARGER NITROGEN TRAILER MTD	RA-3	328	CORDON INTERNATIONAL CORP	WS-500	T230	22,064.00	3655
0326893	115	LATHE 10" TOOLMAKERS	NLV-N	NONE	HARDINGE BROS INC	WS-113	113F	22,069.00	3416
1236017	252	CAMERA LOCAM	51-0003	2321	REDLAKE IMAGING CORP	WS-200	100A	22,085.00	6710
0323955	115	PUNCH TUBE SWAGING	R-378-302A-L-XX	R3780-302B	CRANE RESISTOFLEX DEFENSE	WS-113	113F	22,300.00	3446
0241529	404	VACUUM PUMP ASSY, ET	X89-0513	1	MARTIN MARIETTA AEROSPACE	WS-460	YARD	22,302.00	4310
0241531	404	VACUUM PUMP ASSY, ET	X89-0513	3	MARTIN MARIETTA AEROSPACE	WS-448	YARD	22,302.00	4310
0323498	408	CONSOLE CONSOLE	6222031	3	GRUMMAN AEROSPACE CORP	WS-400	105	22,500.00	6625
0323499	408	CONTROL CONSOLE	622203	2	GRUMMAN AEROSPACE CORP	WS-400	105	22,500.00	6625
1931976	221	CRYOTRAP	7100A	1180	ENTECH LABORATORY AUTOMATION	WS-203	146	22,627.00	6665
1931602	407	PANEL, REMOTE H2 SENSING	S72-1315-1	NONE	ACL-FILCO CORP A SCITECH SUB	WS-150	000	22,800.00	6665
G017601	272	CHAMBER VACUUM	NONE	NONE	LYNDON B JOHNSON SPACE CENTER	WS-272	000	22,808.00	6636
1005840	220	DETECTOR LEAK	ASM110	1859	ALCATEL VACUUM PRODUCTS DIV OF	WS-203	130	23,000.00	6665
0839661	252	CAMERA HYCAM	41-0064	521	REDLAKE IMAGING CORP	WS-200	100A	23,180.00	6710
1931156	214	BOROSCOPE	IV7435A	7201120	OLYMPUS CORP INDUSTRIAL FIBER	WS-203	000	23,230.00	6650
0839972	214	LASER, NITROGEN	PL2300	1011PL2300	PHOTON TECHNOLOGY	WS-201	135	23,500.00	5860
0839877	243	RECORDER SYSTEM	V0DDR-1	23	EG AND G WASC INC	WS-700	CTRL	23,600.00	6625
1931675	209	PRESSURE STANDARD	7252I	59168	RUSKA INSTRUMENT CORP	WS-203	134	23,650.00	6685
1931694	209	CONTROLLER, PRESSURE	7252	59262	RUSKA INSTRUMENT CORP	WS-203	134	23,650.00	6695
0328305	201	STANDARD FREQUENCY	5065A	2644A01474	HEWLETT-PACKARD CO	WS-203	108	23,774.00	6625
1236031	218	OVEN	1406	22X110-93	BLUE M OF GENERAL SIGNAL CO	WS-200	111	23,893.00	6640
1931654	228	TRUCK, FORKLIFT	7FGU30	65115	TOYOTA AUTOMOTIVE INDUS LTD	WS-200	LABCN	23,914.00	3930
1236073	223	WELDING SYSTEM	CWS100D	1346	CAJON CO	WS-801	000	24,110.00	3432
0328616	252	CAMERA, MOTION PICTURE	42-0007	168	REDLAKE IMAGING CORP	WS-200	100A	24,325.00	6710
1235311	115	LATHE	CT124	13-2013416	COLCHESTER LATHE CO INC	WS-113	SHOP	24,434.00	4316
1236011	221	MIXER, GAS MULTI-COMPONENT	S2000R	1885	ENVIRONICS	WS-200	142	24,475.00	6630
1236314	252	COMPUTER	7608-23V	1885700005	FLIR SYSTEMS-BOSTON INC	WS-200	110A	24,500.00	7021

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Nation. Stock #	Document Control #
0838344	115	LATHE, TOOLMAKERS	HLV-H	HLV-H-1366S-T	HARDING MACHINE CO	WS-113	113F	24,577.00	3416
1446429	420	SERVER, ALPHA	PB7RDXA	NI543R4512	DIGITAL SYSTEMS INC	WS-400	BLK	24,604.00	7025
1446431	420	SERVER, ALPHA	PB7RDXA	NI543R4511	DIGITAL SYSTEMS INC	WS-400	BLK	24,604.00	7025
1446432	420	SERVER, ALPHA	PB7RDXA	NI544R4906	DIGITAL SYSTEMS INC	WS-300	BLK	24,604.00	7025
1446434	420	SERVER, ALPHA	PB7RDXA	NI544R4980	DIGITAL SYSTEMS INC	WS-300	BLK	24,604.00	7025
1931053	214	SYSTEM, INDUSTRIAL VIDEO SCOPE	IV7635A	7200879	OLYMPUS OPTICAL CO LTD	WS-201	000	24,794.00	6635
1235646	115	IRONWORKER	P90	P90-559	MEGA MFG INC	WS-113	SHOP	24,900.00	3442
0326236	226	BENDING MACHINE, PIPE-CONDUIT	N/A	64309	TELEDYNE PINES	WS-150	000	24,950.00	3441
0328855	214	CAMERA VIDEO MULTISPECTRAL	MSC-02	NONE	XYBION ELECTRONIC SYSTEMS INC	WS-201	134	24,995.00	5820
1551613	214	SPECTROGRAPH, COMPACT IMAGING	77480	142	ORIEL INSTRUMENTS	WS-201	134	24,997.00	6630
0323491	408	CONTROL CONSOLE	6274011	1	GRUMMAN AEROSPACE CORP	WS-400	105	25,000.00	6625
0329427	501	DEWAR TRAILER MTD	HL1000G	104	MINNESOTA VALLEY ENGINEERING	WS-403	000	25,000.00	3655
1931901	201	CAPACITANCE BRIDGE	2700A	90	ANDEEN HAGERLING	WS-203	108	25,228.00	6685
1236237	230	COMPUTER	PE52A-C9	AB41104FGD	DIGITAL EQUIPMENT CORP	WS-201	139	25,352.00	7021
1931511	217	X-RAY MACHINE	LPX160	13009030939	LORAD INC F-ALLIED RESEARCH	WS-203	123	25,400.00	6635
1931821	218	SYSTEM, ANALYZER	APOLLO 9000	4198006	TEKMAR CO	WS-200	117	25,531.00	6630
0329738	201	OSCILLOSCOPE	7104	B074013	TEKTRONIX INC	WS-203	108	25,930.00	6625
0839901	252	REDUCTION SYSTEM, FILM DATA	160F	6323/6376	NAC INC	WS-200	100A	25,990.00	6760
0329844	201	ANALYZER, SPECTRUM, MAINFRAME	70001A	A431992	HEWLETT-PACKARD CO	WS-203	108	26,204.00	6625
0329845	201	ANALYZER, SPECTRUM, DISPLAY	70206A	2731A001278	HEWLETT-PACKARD CO	WS-203	108	26,204.00	6625
1930935	5	HELIUM LEAK DETECTOR	979	LLD2001	VARIAN VACUM PRODUCTS	WS-201	133	26,234.00	6630
1931604	407	PANEL, REMOTE H2 SENSING	S72-1315-3	NONE	ACL-FILCO CORP A SCITECH SUB	WS-150	000	26,300.00	6665
0328079	404	DEWAR CRYOGENIC LH2	1000 GALLON	NONE	WSF INDUSTRIES INC	WS-NMTECH	000	26,540.00	3655
1931495	223	CAMERA	I-SPEED	9118	OLYMPUS OPTICAL CO LTD	WS-201	000	27,352.00	6710
0328195	115	COMPARATOR OPTICAL	QL-14S	QL141021	OPTICAL GAGING PRODUCTS INC	WS-113	113F	27,706.00	5210
1931765	407	SYSTEM, MOTION IMAGING CAMERA	1038	40116	SPEEDVISION TECH	WS-400	000	27,745.00	6710
0839136	405	RECORDER	MT95000	0G428	ASTRO-MED INC	WS-300	102A	27,770.00	6625
1931603	407	PANEL, REMOTE H2 SENSING	S72-1315-2	NONE	ACL-FILCO CORP A SCITECH SUB	WS-150	000	27,800.00	6665
1005611	837	CERT SYSTEM	34010	NONE	CORTEST INC	WS-200	142	27,877.00	6635
1550597	420	ALPHA SERVER	PB7RFXA	NI610T1648	DIGITAL EQUIPMENT CORP	WS-400	BLK	27,936.00	7025
1550599	420	ALPHA SERVER	PB7RFXA	NI610T1668	DIGITAL EQUIPMENT CORP	WS-300	BLK	27,936.00	7025
0323413	403	CALIBRATION UNIT	43061001	5	GRUMMAN AEROSPACE CORP	WS-403	SHED	28,000.00	6625
0323417	403	CALIBRATION UNIT	43061003	6	GRUMMAN AEROSPACE CORP	WS-403	SHED	28,000.00	6625
0328842	304	RACK BAY9 POWER SUPPLY	NONE	5175	CABTRON SYSTEMS INC	WS-300	BKR1	28,000.00	6625
0323977	115	LATHE,ENGINE	NONE	46826	LODGE AND SHIPLEY CO	WS-113	113F	28,058.00	3416
1931187	201	SYSTEM, MULTIFUNCTION TRANSFER	4950	38929	FLUKE CORP	WS-201	000	28,495.00	6625
0323983	115	DRILLING MACHINE RADIAL	N/A	78314	AMERICAN_SPECTRUM INC	WS-113	113F	28,778.00	3413
1931772	219	DISPLAY BOOTH	UNKNOWN	NONE	ABEX CORP AEROSPACE DIV	WS-200	SHB	28,818.00	5410
0328813	304	CONSOLE OSCILLOGRAPH	1900000-011	ACSK12	GENERAL MOTORS CP AC SPARKPLUG	WS-300	BKR2	29,000.00	6625
0329774	201	RECEIVER MEASURING	8902A	2751A01832	HEWLETT-PACKARD CO	WS-203	108	29,184.00	5820
1550596	420	ALPHA SERVER	PB7RFXA	NI610T1671	DIGITAL EQUIPMENT CORP	WS-400	BLK	29,300.00	7025
1550598	420	ALPHA SERVER	PB7RFXA	NI611T1903	DIGITAL EQUIPMENT CORP	WS-300	BLK	29,300.00	7025
0838643	217	ANALYZER	9801/20	HX645/01	EDAX INT'L F-NUCLEAR DIODES	WS-203	000	29,399.00	7021
0838787	201	COMPARATOR, CURRENT	9975	57662	GUILDLINE INSTRUMENTS LTD	WS-203	108	29,500.00	6625
1235442	304	RECORDER	MT95K2	92J0047	ASTRO-MED INC	WS-300	000	29,610.00	6625
1235443	408	RECORDER	MT95K2	92J0046	ASTRO-MED INC	WS-400	106	29,610.00	6625
0839437	220	CHAMBER, RAPID DECOMPRESSION	F908-5801	08-A304	C V I CORP	WS-203	146	29,662.00	6636
0839691	221	MASS SPECTRAL DETECTOR	5970B	3114A12992	HEWLETT-PACKARD CO	WS-203	146	29,700.00	6630
1931720	217	ANALYZER	XT-245S	836	INNOV-X-SYSTEM INC.	WS-203	000	29,750.00	6630
0839529	837	DEWAR, LOX	HLD500G	198	MINNESOTA VALLEY ENGINEERING	WS-800	C111	29,835.00	3655
0323642	420	VME COMPUTER	9700	M5047151-001	MODULAR COMPUTER SYSTEMS INC	WS-400	BLK	29,908.00	7021
0323671	420	VME COMPUTER	9700	M5046643-001	MODULAR COMPUTER SYSTEMS INC	WS-300	BLK	29,908.00	7025
0268813	301	PANEL, OMS/RCS	70V08910	N/A	MARTIN MARIETTA AEROSPACE	WS-301	000	30,000.00	4960

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio[illegible] Stock #	[illegible]ocument Control #
323395	226	RACK,PRESSURIZATION	F2	02NE	ROCKWELL INT'L NORTH AMER ACFT	WS-310	114	30,000.00	6685
328812	304	CONSOLE OSCILLOGRAPH BAY 14	1900000-021	ACSK18	GENERAL MOTORS CP AC SPARKPLUG	WS-300	BKR2	30,000.00	6625
328819	304	RACK AMPLIFIER	NONE	22175	CABTRON SYSTEMS INC	WS-300	BKR2	30,000.00	6625
328833	304	RACK BAY3 AMPLIFIER	NONE	21252	CABTRON SYSTEMS INC	WS-300	BKR1	30,000.00	6625
328834	304	RACK BAY1 EVENT/SYS CALIBRATOR	NONE	5175	CABTRON SYSTEMS INC	WS-300	BKR1	30,000.00	6625
328843	304	RACK BAY10 AMPLIFIER SYSTEM	NONE	5175	CABTRON SYSTEMS INC	WS-300	BKR1	30,000.00	6625
329104	408	CONTROL CABINET	B1JB2	1	GRUMMAN AEROSPACE CORP	WS-400	BSMT	30,000.00	6110
329113	408	CONTROL CABINET	B2JB2	4	GRUMMAN AEROSPACE CORP	WS-400	BKR2	30,000.00	6110
329114	408	CONTROL CABINET	B2JB3	5	GRUMMAN AEROSPACE CORP	WS-400	BKR2	30,000.00	6110
329115	408	CONTROL CABINET	B3JB1	3	GRUMMAN AEROSPACE CORP	WS-400	BKR2	30,000.00	6110
329116	408	CONTROL CABINET	B2JB4	6	GRUMMAN AEROSPACE CORP	WS-400	BKR2	30,000.00	6110
481780	301	PANEL, OMS/RCS	79V08909	N/A	ROCKWELL INT'L SPACE TRANSPOR-	WS-301	000	30,000.00	1850
838357	501	TANKER, PROPELLANT FUEL	NONE	T-162	LOCKHEED ENGR & MGMT SERVICES	WS-503	000	30,000.00	2330
839013	501	TANKER, PROPELLANT OXIDIZER	NONE	T-163	LOCKHEED ENGR & MGMT SERVICES	WS-500	000	30,000.00	2330
550965	223	WATER SYSTEM, RPOV	PRES SYST 9270	NONE	ALLIED SIGNAL AEROSPACE CO	WS-200	SHB	30,000.00	6680
551958	261	SYSTEM,MICRO CAMERA	MICRO 500	NONE	MARKS PRODUCTS INC	WS-638	000	30,085.00	6780
329632	201	TEST SET S-PARAMETER	8515A	2723A01607	HEWLETT-PACKARD CO	WS-203	108	30,416.00	7025
324280	220	ENVIRONMENTAL CHAMBER TEMPERAT	WF361C0	3-65324	STARRETT L S CO WEBBER GAGE DV	WS-203	130	30,555.00	6636
1236106	221	CHROMATOGRAPH GAS	5890	UNKNOWN	HEWLETT-PACKARD CO	WS-200	136	30,633.00	6630
1551071	221	CAPILLARY ELECTROPHORES SYST.	G1600AX	3024G00955	HEWLETT-PACKARD CO BOISE DIV	WS-203	124	31,367.00	6630
1931669	201	CALIBRATOR	5520A	8575012	FLUKE CORP	WS-203	108	31,831.00	6685
323632	408	CONSOLE CAMERA STAND SUPPORT	NONE	NONE	GRUMMAN AEROSPACE CORP	WS-400	BSMT	32,000.00	3695
1236358	221	MICROSCOPE, ANALYTICAL	0047-009	485	SPECTRA TECHNOLOGY INC	WS-200	128	32,235.00	6650
0839372	227	FLOW TEST BENCH	NONE	NONE	LOCKHEED ENGR & MGMT SERVICES	WS-200	163	32,250.00	6680
0323641	420	VME COMPUTER	9700	M5047426-001	MODULAR COMPUTER SYSTEMS INC	WS-400	BLK	32,541.00	7021
0323672	420	VME COMPUTER	9700	M5046T34-002	MODULAR COMPUTER SYSTEMS INC	WS-300	BLK	32,541.00	7025
0323958	115	BRAKE PRESS	1B-36-6-8	51381	NIAGARA MACHINE AND TOOL WORKS	WS-113	113F	32,795.00	3441
1930147	228	OVEN, CONVECTION	DCC-1406B	Y06H-408657-YH	LINDBERG CORP	WS-200	117	32,814.00	4430
0324999	209	LOAD CELL STANDARD	EC-6	47932	REVERE CP F-COX & STEVENS ACFT	WS-203	133	32,900.00	6625
1931900	201	STANDARD, TRANSFER	792A	8670001	FLUKE CORP	WS-203	108	32,963.00	6685
0838833	301	POWER SUPPLY, WELDING	PA100STW	350	WELDLOGIC INC	WS-328	000	33,365.00	3432
1236072	221	INFRARED DETECTOR	5965B	2950A00354	HEWLETT-PACKARD CO	WS-203	146	33,365.00	6665
0329003	217	X-RAY SYSTEM	HF160	UNKNOWN	PANTAX /E M I/ LTD	WS-203	120	33,495.00	6635
1005889	405	RECORDER	VS1601	T999/007	RACAL RECORDERS	WS-400	106	33,885.00	6625
0323369	501	VAPORIZER,LIQUID NITROGEN	NONE	1042	UNION CARBIDE CORP LINDE DIV	WS-500	000	34,000.00	6636
0326210	226	BOOSTER UNIT, HELIUM	S14 022	3	ROCKWELL INT'L SPACE TRANSPOR-	WS-400	PADAM	34,000.00	1850
0696353	404	ASSY, CART, VACUUM, PUMP	X89-0129	NONE	MARTIN MARIETTA AEROSPACE	WS-448	YARD	34,294.00	1850
0838080	209	BELL PROVER	1091A	8806HC021628	BROOKS INSTRUMENT DIV EMERSON	WS-203	138	34,310.00	6685
0323337	255	RECHARGER, LOX (T-148 W/DEWAR)	NONE	2460	HOFMAN PAUL CRYOGENIC DIV	WS-252	000	34,950.00	3655
1551167	227	ANALYZER, VIDEO	W2	7610516	OLYMPUS OPTICAL CO LTD	WS-200	163	34,955.00	6625
0323296	501	TRAILER,TUBE BANK	568950	240	MCDONNELL DOUGLAS CORP	WS-500	000	35,000.00	2330
0323340	501	TRAILER SEMI COMP GAS CYLINDER	MH-1	86	MCDONNELL DOUGLAS F-MCDONNELL	WS-500	000	35,000.00	3655
0324429	832	TRAILER TUBE OXYGEN/NITROGEN	NONE	18	MCDONNELL DOUGLAS F-MCDONNELL	WS-500	536	35,000.00	2330
1551985	226	TRAILER COMPRESSED GAS	5689501	J0109593	HUGHES AIRCRAFT CO	WS-500	000	35,000.00	2330
0838825	243	DATA ACQUISITION SYS., MODULAR	8025	A70207	LECROY CORP	WS-700	CTRL	35,260.00	7025
0838826	243	DATA ACQUISITION SYS., MODULAR	8025	A70271	LECROY CORP	WS-700	CTRL	35,260.00	7025
0838827	243	DATA ACQUISITION SYS., MODULAR	8025	A70258	LECROY CORP	WS-700	CTRL	35,260.00	7025
0839554	242	DATA ACQUISITION SYS., MODULAR	8025	A92969	LECROY CORP	WS-272	T272A	35,260.00	7025
0839566	242	DATA ACQUISITION SYS., MODULAR	8025	A92977	LECROY CORP	WS-272	SBNK	35,260.00	7025
0839671	217	HOT ZONE	8820	NONE	VACUUM INDUSTRIES F-GCA/VACUUM	WS-255	000	35,320.00	6636
1551614	305	RECORDER, STRIP CHART	DMS1000	2797018	WESTERN GRAPHTEC INC	WS-300	102	35,445.00	6625
0329172	221	SPECTROMETER FTIR	5AUX	8800767	NICOLET INSTRUMENT CORP	WS-200	128	36,535.00	6650
1525052	201	GENERATOR, SIGNAL	8672A	2132A02172	HEWLETT-PACKARD CO	WS-203	108	37,100.00	6625

This list is current as of the release date of the RFP

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
.235338	221	CALORIMETER	4223-4	UNKNOWN	HART SCIENTIFIC	WS-200	144	37,443.00	6685
)329633	201	GENERATOR SWEEP SYNTH	8341B	2812A01356	HEWLETT-PACKARD CO	WS-203	108	37,953.00	7025
)840006	243	DATA ACQUISITION SYS., MODULAR	8025	B00776	LECROY CORP	WS-700	CTRL	38,950.00	7025
)840008	243	DATA ACQUISITION SYS., MODULAR	8025	A00767	LECROY CORP	WS-700	CTRL	38,950.00	7025
.930495	261	TANK, STORAGE	250,000 GAL	ET2323	MODUTANK	WS-638	000	39,790.00	5430
)328095	404	MOTOR ELECT. 400 HP W/PUMP	UNKNOWN	1S-64	SUNDSTRAND AEROSPACE ELECTRICA	WS-150	YARD	40,000.00	6105
.551986	226	TRAILER COMPRESSED GAS	32	54L5094	HUGHES AIRCRAFT CO	WS-500	000	40,000.00	2330
.551987	226	TRAILER COMPRESSED GAS	32	545095	HUGHES AIRCRAFT CO	WS-500	000	40,000.00	2330
.552068	221	THERMAL ANALYSIS UNIT	915001.901	2920-765	TA INSTRUMENT CASE CO	WS-200	128	40,125.00	6630
.930035	221	THERMAL ANALYSIS UNIT	TGA2950	H2950-718	TA INSTRUMENT CASE CO	WS-200	128	40,125.00	6630
)481911	301	COLD TRAP, HYDRAZINE	G230000VHM061	1	MARTIN MARIETTA AEROSPACE	WS-400	YARD	40,175.00	1850
.005603	221	SPECTROMETER, MASS	5970B	3114A13096	HEWLETT-PACKARD CO	WS-200	STORG	40,374.00	6630
)329714	201	SYNTHESIZER SIGNAL GENERATOR	8673B	2747A01156	HEWLETT-PACKARD CO	WS-203	108	40,419.00	5820
)324219	220	ENVIRONMENTAL CHAMBER HIGH TEM	NONE	5-66-525	STARRETT L S CO WEBBER GAGE DV	WS-203	130	40,490.00	6636
)328987	217	METALLOGRAPH	300	858	LECO CORP F-LABORATORY EQUIP	WS-203	123	40,546.00	6635
)839012	405	DATA ACQUISITION SYSTEM	5550	1-1-6-0714	CONCURRENT COMPUTER CORP	WS-400	106	40,966.00	7021
)323354	112	TRAILER,SEMI,TANK,4000 GAL	NONE	USAF-1060	UNKNOWN	WS-203	000	41,166.00	2330
.236359	221	SPECTROMETER	MAGNA750	ACJ9401231	NICOLET INSTRUMENT CORP	WS-200	128	42,254.00	6650
.236119	214	OPTICAL FILTER SYSTEM	HYCON II	NONE	FARADAY LABS INC	WS-201	134	42,597.00	6650
.930752	115	MILLING MACHINE	FTV-2	NONE	REPUBLIC MACHINERY CO INC DBA	WS-113	SHOP	43,605.00	3417
.235799	255	RECHARGER, HYDROGEN	23-764-1	93035	CRYOGENIC COMPONENTS INC	WS-250	000	43,917.00	3655
.551066	115	LATHE	EE	35115	MONARCH MACHINE TOOL CO	WS-113	SHOP	44,095.00	3419
.236294	223	TEST MACHINE,IMPACT	8250	501.41	GENERAL RSCRH CP DYNATUP DIV	WS-800	105	44,400.00	6635
)328816	305	RACK ELEC EQ PITCH-YAW CONTROL	C14-602	1	WHITTAKER CORP ELECTRONIC SYS	WS-300	BKR2	45,000.00	6615
)323396	501	TRAILER,COMPRESSED HELIUM	NONE	65-175-1	CHEVROLET MOTOR DIV	WS-310	000	45,185.00	2330
)323429	226	TRAILER SEMI COMPRESSED HELIUM	1269	65-175-2	EIDAL INTERNATIONAL CORP	WS-400	IGP	45,185.00	2330
)838829	237	DATA ACQUISITION SYS., MODULAR	1434A	A64059	LECROY CORP	WS-800	HFTA	45,299.00	7025
)024013	272	X-RAY FLASH SYSTEM	AS2085A	329474	STANTRON OF ZERO F-WYE METAL	WS-272	000	45,478.00	6625
.931894	261	TANK, STORAGE	ET2323	NONE	MODUTANK INC.	WS-650	YARD	45,940.00	5430
.236033	405	RECORDER	DMS1000	1693013	WESTERN GRAPHTEC INC	WS-400	106	46,545.00	6625
.005653	405	COMPUTER	SLS7500R	1-18-21-1460	CONCURRENT COMPUTER CORP	WS-400	101A	48,908.00	7021
)328298	832	PUMPING SYSTEM CRYOGENIC	22-528-1	6324	CRYOGENIC COMPONENTS INC	WS-800	111	50,400.00	3655
.298524	272	LASER W/DRIVER	1352	4/10/1989	CORDIN CO	WS-272	0000	53,200.00	5860
.930483	227	SYSTEM, STORAGE	NONE	NONE	SPACESAVER	WS-200	166	53,617.00	3915
.931745	214	CAMERA, DIGITAL	414.0002.00	NONE	INDIGO SYSTEMS	WS-203	000	54,900.00	6710
)329698	201	GENERATOR SWEEP	8340B	2819A00918	HEWLETT-PACKARD CO	WS-203	108	55,046.00	6625
.345400	211	GENERATOR, SIGNAL	8663A	3408A02191	HEWLETT-PACKARD CO	WS-203	108	55,259.00	6625
.930325	255	TUBE BANK, OXYGEN	NONE	10	THIOKOL-RMD/I-80 PROPERTIES	WS-250	HYPAD	55,297.00	3655
)327223	832	TRAILER OXYGEN READY STORAGE	S14-062	1	THIOKOL-RMD/I-80 PROPERTIES	WS-503	000	55,397.00	2330
.930635	255	STORAGE UNIT OXYGEN READY	S14-062	2	ROCKWELL INT'L NORTH AMER ACFT	WS-156	000	55,397.00	3655
.931743	255	TRAILER,HYDROGEN STORAGE	S14-062	3	THIOKOL-RMD/I-80 PROPERTIES	WS-250	000	55,397.00	3655
.931744	255	TUBE BANK HELIUM	S14-062	13	GRUMMAN AEROSPACE CORP	WS-250	000	55,397.00	3655
)839095	501	DEWAR, HYDROGEN	NONE	5	LOS ALMOS NAT'L LABORATORY	WS-150	000	56,409.00	3655
.005610	217	ULTRASONIC IMMERSION TEST SYS.	MC33	NONE	SONIX INC	WS-203	123	56,475.00	6635
.931680	501	TANK, STORAGE	V682	V50741-1	A.O. SMITH CORP	WS-150	YARD	57,717.00	5430
)323497	408	CONTROL CONSOLE	10629201	1	GRUMMAN AEROSPACE CORP	WS-400	105	60,000.00	6625
)328097	404	GENERATOR ASSEMBLY STEAM	NONE	2202	THIOKOL CP VENTRON DIV	WS-448	YARD	60,000.00	4420
)328817	305	RACK ELEC EQ PITCH-YAW CONTROL	C14-602	1	WHITTAKER CORP ELECTRONIC SYS	WS-300	BKR2	60,000.00	6615
)328849	305	RACK RJD BAY PITCH-YAW CONTROL	C14-602	1	WHITTAKER CORP ELECTRONIC SYS	WS-300	BKR1	60,000.00	6615
)328850	305	RACK SFCA BAY PITCH-YAW CONTRL	C14-602	1	WHITTAKER CORP ELECTRONIC SYS	WS-300	BKR1	60,000.00	6615
.931185	211	SCOPE CALIBRATOR	95003200	43943	FLUKE CORP	WS-203	000	60,775.00	6625
)838573	115	LATHE	EE	53807	MONARCH MACHINE TOOL CO THE	WS-113	113F	61,975.00	3416
)323440	255	TRAILER,HELIUM STORAGE	S14-062	7	ROCKWELL INT'L NORTH AMER ACFT	WS-500	000	62,170.00	2330

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio Stock #	Document Control #
1931677	501	TANK, STORAGE	V979	451669-V4	TAYLOR FORGE CANADA LTD	WS-150	YARD	67,413.00	5430
0328387	221	SPECTROMETER INFRARED	SIRIUS 100	IR-10001	MATTSON ELECTRONICS CORP	WS-150	00000	68,110.00	6630
0324207	220	ENVIRONMENTAL CHAMBER HIGH TEM	NONE	3-66-324	STARRETT L S CO WEBBER GAGE DV	WS-203	130	68,228.00	6636
1931678	501	TANK, STORAGE	V719	289714-11	TAYLOR FORGE CANADA LTD	WS-150	YARD	68,422.00	5430
1931683	501	TANK, STORAGE	V701	289714-1	TAYLOR FORGE CANADA LTD	WS-150	YARD	68,422.00	5430
1931685	501	TANK, STORAGE	V718	289714-9	TAYLOR FORGE CANADA LTD	WS-150	YARD	68,422.00	5430
1931681	501	TANK, STORAGE	V653	351513-2	TAYLOR FORGE CANADA LTD	WS-150	YARD	69,411.00	5430
1931682	501	TANK, STORAGE	V598	351513-1	TAYLOR FORGE CANADA LTD	WS-150	YARD	69,411.00	5430
1931496	217	CAMERA	QUANTIX A03H6009	KAF6303E	ROGER SCIENTIFIC	WS-203	117	70,750.00	6760
0323408	403	SIMULATOR RH POD OXIDIZER	73Y420016-1001	4	MCDONNELL DOUGLAS CORP ACFT CO	WS-401	000	71,250.00	4960
0323421	403	SIMULATOR RH POD FUEL	73Y420016-1001	1	MCDONNELL DOUGLAS CORP ACFT CO	WS-401	000	71,250.00	4960
0326189	301	SIMULATOR RH POD OXIDIZER	73Y420016-1001	003E	MCDONNELL DOUGLAS CORP ACFT CO	WS-301	000	71,250.00	4960
0326190	301	SIMULATOR RH POD FUEL	73Y420016-1001	2	MCDONNELL DOUGLAS CORP ACFT CO	WS-301	000	71,250.00	4960
1931615	252	CAMERA, HIGH SPEED	PHANTOM V7.1	VR402 3837V71M	VISION RESEARCH INC.	WS-270	000	72,400.00	6710
1931616	252	CAMERA, HIGH SPEED	PHANTOM V7.1	VR402 3836V71M	VISION RESEARCH INC.	WS-270	000	72,400.00	6710
1235651	301	HEATING AIR CONDITIONING UNIT	TCI-P318NC60LESC	92836871	TISDALE CO INC	WS-301	000	74,000.00	4120
1235652	301	HEATING AIR CONDITIONING UNIT	TCI-P318NC60LESC	92836874	TISDALE CO INC	WS-328	000	74,000.00	4120
1235653	401	HEATING AIR CONDITIONING UNIT	TCI-P318NC60LESC	92836872	TISDALE CO INC	WS-401	TSTAN	74,000.00	4120
1235654	403	HEATING AIR CONDITIONING UNIT	TCI-P318NC60LESC	92836873	TISDALE CO INC	WS-403	000	74,000.00	4120
1236128	301	HEATING AIR CONDITIONING UNIT	TCI-P318NC60L3SC	NONE	TISDALE CO INC	WS-303	000	74,700.00	4120
0323916	304	SIGNAL CONDITIONER BAY	365-12559	NONE	LOCKHEED CP ELECTRONIC CO	WS-300	BKR1	75,000.00	4960
1931684	501	TANK, STORAGE	V-070	8919	SOUTHWEST WELDING AND MFG CO	WS-150	YARD	75,809.00	5430
1005828	405	RECORDER	SH1409	UNKNOWN	RACAL RECORDERS	WS-400	106	76,760.00	6625
0839381	272	X-RAY SYSTEM	150	NONE	SCANDINAVIAN X-RAY A/S	WS-272	S.B0	81,830.00	6635
0839435	272	X-RAY SYSTEM	150	NONE	SCANDINAVIAN X-RAY A/S	WS-272	S.B0	81,830.00	6635
0323922	301	CART RCS VACUUM TEST FUEL	43011501	1	GRUMMAN AEROSPACE CORP	WS-328	000	85,000.00	6625
1235996	301	HEATING AIR CONDITIONING UNIT	TC1P318NC60LESC	9.08347E+11	TISDALE CO INC	WS-301	000	85,546.00	4120
1930957	115	MACHINE, MEASURING	ECLIPSE	2.00104E+11	ZEISS CARL INC	WS-113	SHOP	87,883.00	3408
1235484	209	VACUUM CALIBRATION SYSTEM	VCCS200	92283002N	NGS ASSOCIATES INC	WS-203	137	88,550.00	6685
0326475	252	VIDEO SYSTEM W/CAMERA	SP2000-C	2132	EASTMAN KODAK CO APPARATUS DIV	WS-200	100A	89,862.00	5820
1930738	221	GAS CHROMATOGRAPH	6890N	US10128021	AGILE CORP	WS-203	146	90,210.00	6665
1930959	115	VERTICAL MACHINING CENTER	VMC 1000IIA	NVC-532	HARDING MACHINE CO	WS-113	SHOP	95,130.00	3408
1930960	115	VERTICAL MACHINING CENTER	VMC1000IIB	NVC-533	HARDING MACHINE CO	WS-113	SHOP	95,130.00	3408
1931193	217	X-RAY GENERATOR	HS450	0402-7722-CC	SEIFERT X-RAY CORP	WS-203	117	96,118.00	6635
1931430	217	PROFILER	OM-NT-1100	NT1103143	WYKO CORP	WS-203	METLA	98,381.00	6650
0325429	217	MICROSCOPE ELECTRON SCANNING	6702/01	9432	PHILIPS ELECTRONIC INSTRUMENTS	WS-203	122	99,845.00	6650
1552054	226	TRAILER,DEWER	NONE	HE604-041	HUGHES AIRCRAFT CO	WS-150	EYARD	101,990.00	2330
1931671	115	VEHICLE, TRUCK	KODIAK	1GBS7H4J3NJ100458	GENERAL MOTORS CORP	WS-113	SHOP	102,669.00	2320
0838285	221	QUANTOMETER OPTICAL EMISSION	3560	3560-1797	APPLIED RESEARCH LABORATORIES	WS-200	128	102,716.00	6630
1551067	115	LATHE, CNC	SG42	5GA1254B	HARDINGE BROS INC	WS-113	SHOP	103,250.00	3419
0839330	115	MACHINING CENTER	AF15-40	90102232	BAYER INDUSTRIES INC	WS-113	SHOP	105,178.00	3408
0839260	272	X-RAY SYSTEM	43734A	UNKNOWN	HEWLETT-PACKARD MCMINNVILLE DV	WS-272	S.B0	109,065.00	6635
1930753	115	ELECTRICAL DISCHARGE MACHINE	AQ325	204	SODICK INC	WS-113	SHOP	130,035.00	3410
1930627	272	SYSTEM, CAMERA IMAGING	083-100-F00	51	DRS TECHNOLOGIES	WS-272	S.B0	135,000.00	6730
0327222	304	RECORDER REPRODUCER MAG. TAPE	SE9000	586	THORN E M I DATATECH	WS-300	000	139,804.00	7025
0328122	405	RECORDER REPRODUCER MAG. TAPE	SE9000	584	THORN E M I DATATECH	WS-400	106	139,804.00	7025
0328123	405	RECORDER REPRODUCER MAG. TAPE	SE9000	585	THORN E M I DATATECH	WS-400	106	139,804.00	7025
1551280	221	SPECTROMETER, PLASMA MASS	G1820A	3622J00404	YOKOGAWA ELECTRIC WORKS LTD	WS-203	124	142,725.00	6680
0326259	301	SERVICE DISCONNECT PANEL	73Y420008-1003	NONE	MCDONNELL DOUGLAS CORP ACFT CO	WS-301	000	148,000.00	4960
0323348	501	TANK,MOBILE VESSEL	NONE	444	CRYOQUIP INC	WS-150	NEW	150,000.00	2330
1235681	501	TUBE BANK	DACA09-81C0011	TKG029GSASHE	UNITED STATES STEEL CORP	WS-403	PAD	150,000.00	3655
1235682	501	TUBE BANK	DACA09-81C0011	TKG033GSAHE	UNITED STATES STEEL CORP	WS-403	PAD	150,000.00	3655
1235797	501	TUBE BANK	DACA09-81C0011	TKG036GSAHE	UNITED STATES STEEL CORP	WS-403	PAD	150,000.00	3655

ECN	Acct. #	Item Name	MFG Model #	MFG Serial #	MFG Name	Building	Room	Natio. Stock #	Document Control #
1235511	831	CALORIMETER	CONE3	C03-3000C44	ATLAS ELECTRIC DEVICES CO	WS-800	119	179,830.00	6630
G031405	272	CAMERA, MOTION PICTURE LASER	330IR	1223	CORDIN CO	WS-201	136	184,295.00	6710
1930958	115	MACHINE, TURNING	CONQUEST T-51	CL-949-BSP	HARDING MACHINE CO	WS-113	SHOP	202,519.00	3408
1930580	115	LATHE	CS-51	CL932BBB	HARDINGE BROS INC	WS-113	SHOP	218,117.00	3416
1235676	501	TUBE BANK	DACA09-81C0011	TKG034GSAHE	UNITED STATES STEEL CORP	WS-403	PAD	225,000.00	3655
1551616	115	MACHINING CENTER	VMC45B	97309	MONARCH MACHINE TOOL CO	WS-113	SHOP	225,000.00	3408
1930583	217	SYSTEM, X-RAY TOMOGRAPHY	UNKNOWN	001012P085715	HITEC CORP	WS-203	122	226,293.00	6635
1931261	272	SYSTEM, DIGITAL IMAGING	116-100-H00	220	DRS TECHNOLOGIES	WS-203	SHB0	251,772.00	6730
1298522	272	CAMERA W/ROTATING MIRROR	140IR	1-317	CORDIN CO	WS-272	S.B0	266,425.00	6730
1930844	217	SYSTEM, ELECTRON MICROSCOPE	XL30 ESEM	D6962	PHILIPS	WS-203	123	291,807.00	6635
1930751	115	MILLING MACHINE	FTV-2	NONE	REPUBLIC MACHINERY CO INC DBA	WS-113	SHOP	306,222.00	3417
0481479	223	DEWAR,TRAILER MTD.	3007900	346	CRYOQUIP INC	WS-700	000	366,000.00	3655
1235570	402	OXIDIZER MANUFACTURING SYSTEM	NONE	NONE	OKLAHOMA STATE UNIVERSITY	WS-300	STG	500,000.00	3650
1235485	217	SURFACE ANALYSIS SYSTEM	PH15600	UNKNOWN	PERKIN-ELMER CORP THE	WS-203	116	569,004.00	6635
0323536	405	CABINET, RECORDER	101	NONE	BECKMAN INDUSTRIAL CORP	WS-400	106	623,475.00	7025
0323586	405	CABINET	516502	101	BECKMAN INDUSTRIAL CORP	WS-400	BKR2	645,890.00	7021

Small Business Subcontracting Plan

for the

NASA WSTF Test and Evaluation Contract (TEC)

Submitted by Jacobs Sverdrup

TEC Program Manager

TEC Contract Administrator

NASA Contracting Officer

NASA COTR

Small Business Subcontracting Plan

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List of Acronyms

Acronym	Definition
ASPL	Advanced Space Propulsion Laboratory
CCR	Central Contractor Registration
CO	Contracting Officer
DC	District of Columbia
DOD	Department of Defense
DRD	Data Requirements Description
DRFP	Draft Request for Proposal
EG	Aeroscience and Flight Mechanics Division
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
EV	Avionics Systems Division
EVA	Extravehicular Activity
FAR	Federal Acquisition Regulations
G&A	General and Administrative
GCS	GeoControl Systems
HBCU/MI	Historically Black Colleges and Universities and Other Minority Institutions
HRPO	Human Resources and Procurement Offices Contract
HUBZone	Historically Underutilized Business Zone
IGOAL	Integrated Graphics Operations and Analysis Laboratory
ISO	International Standards Organization
ISS	International Space Station
ITMA	Integrated Team Management Approach
ITSS	Information Technology Support Services
JS	Jacobs Sverdrup
JSC	NASA Johnson Space Center
JSEMS	Jacobs Sverdrup Enterprise Management System
MEI	Muñiz Engineering
MSFC	Marshall Space Flight Center
NASA	National Aeronautics and Space Administration
NMSDC	National Minority Supplier Development Council
PAMSS	Printing and Mail Support Services Contract
PEVIT	Portable EVA Videoscope Inspection Tool
RFP	Request for Proposal
S&FS	Safety and Fire Services Contract
SB	Small Business(es)
SBA	Small Business Administration
SDB	Small Disadvantaged Business
SDVOSB	Service-Disabled Veteran-Owned Small Business
SF	Standard Form

List of Acroynms (concluded)

Acronym	Definition
SFOC	Space Flight Operations Contract
SOW	Statement of Work
TCV	Total Contract Value
TEAM	Test, Evaluation, and Maintenance
TEC	Test and Evaluation Contract
TN	Tennessee
VOSB	Veteran-Owned Small Business
WOSB	Women-Owned Small Business
WSTF	White Sands Test Facility

1.0 Overview

Jacobs Sverdrup's Subcontracting Plan offers the best value to WSTF, including: proven capability to exceed subcontracting goals using teaming agreements, approved systems, and best-value competitions; four on-site SB teammates as integrated members of the JS TEC Team; and an extensive roster of pre-qualified vendors to place procurements with diverse SB, SDB, WOSB, HUBZone, VOSB, SDVOSB, and HBCU/MI.

Jacobs Sverdrup's (Sverdrup Technology, Inc.) corporate policy affirms the Government's policy of providing the maximum opportunity for small business (SB), to include the categories of Veteran-Owned Small Business (VOSB), Service-Disabled Veteran-Owned Small Business (SDVOSB), Historically Underutilized Business Zone (HUBZone), Women-Owned Small Business (WOSB), Small Disadvantaged Business (SDB), and Historically Black Colleges and Universities and Other Minority Institutions (HBCU/MI). Our proposal team, including our JS TEC Team Program Manager, began policy implementation during proposal preparation with the development of a Subcontracting Plan. Our Plan is hereby submitted to describe our compliance with plan elements as required by FAR 52.219-9, Small Business Subcontracting Plan (with Alternate II [Oct 2001]) (Jan. 2002), and in conformance with DRD 011 and the general policy that small businesses concerns have the maximum practical opportunity to participate as subcontractors under the Test and Evaluation Contract (TEC).

Prior to receipt of the Draft Request for Proposal (DRFP) from NASA White Sands Test Facility (WSTF), we conducted an in-depth review of the Statement of Work (SOW) requirements of the TEC predecessor Test, Evaluation, and Maintenance (TEAM) contract and related them to our internal capabilities, identifying areas where SB, SDB, WOSB, HUBZone, VOSB, SDVOSB, and HBCU/MI teammates could contribute to ensuring outstanding contract performance. We additionally considered ways to integrate subcontractor organizations into our organizational plans for the WSTF TEC efforts, the level of management responsibility to be flowed down to the subcontractor, and interfaces with NASA. Consistent with our Integrated Team Management Approach (ITMA), described in Appendix A – Contract Management Plan, we will allow our subcontractors to perform across the broad scope of the SOW.

Factors we considered in evaluating potential teammates, which will be discussed at length in Section 4.0 of this plan, included the extent of technical expertise required by each SOW task and the subcontractor's experience with responding to NASA mission requirements, especially at NASA WSTF, where several of our teammates currently perform work relevant to TEC. Our selection criteria required that our partners have cultures and company practices similar to our own relative to exceptional customer focus, cost effective management approaches, decision-making based on a long-term perspective, emphasis on operational excellence, and a commitment to professional integrity at every level of the organization. We closely evaluated more than 30 diverse candidate companies who fit our comprehensive requirements and who demonstrated an active interest in partnering with us. Our evaluation process culminated in the selection of three high-potential small businesses as our partners for this effort – ERC,

GeoControl Systems, and Muñiz Engineering. All three of these firms will have major roles in the TEC contract work.

ERC, Incorporated (ERC) – ERC is an industry-leading small business (SB) specializing in technical support to NASA and DOD clients. Founded in 1988, today ERC has 650 employees and revenues of more than $50M annually. ERC has partnered with NASA since 1989 and has an established mentor-protégé relationship with JS on our Engineering, Science, and Technical Services contract at NASA Marshall Space Flight Center (MSFC). ERC supports numerous other NASA and DOD contracts containing elements highly relevant to TEC in areas such as technical development and test facility/laboratory support, as well as planning and implementing development and test activities. ERC was recently awarded the MSFC 2003 Contractor Excellence Award, and has been selected as a finalist for NASA's 2004 George M. Low Award. ERC is also a past recipient of the NASA Minority Contractor of the Year Award, and has been recognized twice with the SBA Administrator's Award for Excellence. ERC's services include engineering and management services, research and development, modeling and simulation, test and evaluation, space transportation, information technology, and laboratory operations. The company provides expertise in the analysis, design, development, and testing of next-generation space systems and deep space concepts for NASA and Air Force customers.

GeoControl Systems (GCS) – GCS is an 8(a), woman-owned, small disadvantaged business (WOSB, SDB) also certified as a HUBZone firm. Established in 1984, today GCS has 61 employees and annual revenues of $3M. GCS is a high-technology engineering firm specializing in avionics and software testing, real-time simulations, high-tech data communications, and engineering research. GCS has served NASA Johnson Space Center (JSC) for more than 15 years, and was recently selected for the Printing and Mail Support Services (PAMSS) Contract. GCS also currently provides real-time systems development and integration support services as a prime contractor supporting the Aeroscience and Flight Mechanics Division (EG) and the Avionics Systems Division (EV) of the Engineering Directorate. GCS has demonstrated a strong commitment to the goals of the SBA's HUBZone program through initiatives such as partnering with the Houston Area Urban League to recruit and train new employees. Their efforts have been recognized with commendations from the district's congressional representative. In addition, GCS is the recipient (together with Muñiz Engineering) of NASA JSC's 2004 Mentor-Protégé of the Year Award. Their technical competencies include development and operation of simulation systems and special test equipment for testing avionics and flight software; development of flight software, spanning the full life-cycle and including requirements development/analysis, design, coding, verification, and integration; and program management support including risk analysis/management, schedule analysis/management, and change management.

Muñiz Engineering (MEI) – MEI is a Houston-based, service-disabled veteran-owned, small disadvantaged business (SDB, VOSB, SDVOSB) incorporated in 1992 that currently employs 350 personnel and has annual revenues of $29M. MEI has been the sole provider of integration and operations support for all DOD experiments flown on the Space Shuttle and International Space Station (ISS) for the past eight years. Their current support to JSC includes support to the Advanced Space Propulsion Laboratory

(ASPL), Integrated Graphics Operations and Analysis Laboratory (IGOAL), Safety and Fire Services (S&FS) Contract, Information Technology Support Services (ITSS) contract, the Human Resources and Procurement Offices (HRPO) contract as well as the support to the Portable EVA Videoscope Inspection Tool (PEVIT) effort. MEI is a past recipient of JSC's SDB Contractor of the Year Award and was recognized with the SBA Administrator's Award for Excellence in 2002. In addition, MEI (together with GCS) is the recipient of NASA JSC's 2004 Mentor-Protégé of the Year Award. MEI provides engineering services to JSC, the DOD and aerospace industry clients that include spacecraft systems engineering and design; Shuttle payload integration and operations; launch vehicle and payload integration; developmental and operational test evaluation; and specialty engineering services for structural, stress, thermal, and EMI/EMC applications.

2.0 Goals

Total dollars planned to be subcontracted, based upon total contract value, are shown in terms of dollars and percentages of SB subcontracted dollars for each of the required SB categories in Figure 1 and as a percentage of Total Contract Value (TCV) in Figure 2.

2.1 Teaming Arrangement

As evidence of our commitment to meet these goals, we drafted legally-binding written teaming agreements, agreed upon and signed by authorized officers from each company. Tailored specifically for TEC, our teaming arrangement is designed to guarantee each teammate a significant percentage of the labor dollar value for TEC. Specifically, we have guaranteed 15% to ERC, 6% to GeoControl Systems, and 10% to Muñiz Engineering. All totaled, we have guaranteed 31% of the labor to our teammates. We have designed this teaming arrangement in order to position our team to satisfy your requirement of 30% of the contract value for SBs, 16% for SDBs, 5% for WOSBs, 2% to VOSBs, 2% to SDVOSBs, 2% to HUBZone, and 1% to HBCU/MI. Additionally, as

Figure 1 Jacobs Sverdrup Small Business Subcontracting Plan (% of SB $)

Contract Year	SB		SDB		WOSB	
	$	%	$	%	$	%
Year 1	3,278,137	100%	1,691,942	52%	634,478	19%
Year 2	3,214,928	100%	1,659,318	52%	622,244	19%
Year 3	3,250,201	100%	1,677,523	52%	629,071	19%
Year 4	3,346,957	100%	1,727,462	52%	647,798	19%
Year 5	3,433,760	100%	1,772,263	52%	664,599	19%

Contract Year	VOSB		SDVOSB		HUBZone		HBCU/MI	
	$	%	$	%	$	%	$	%
Year 1	1,057,464	32%	1,057,464	32%	634,478	19%	105,746	3%
Year 2	1,037,074	32%	1,037,074	32%	622,244	19%	103,707	3%
Year 3	1,048,452	32%	1,048,452	32%	629,071	19%	104,845	3%
Year 4	1,079,664	32%	1,079,664	32%	647,798	19%	107,966	3%
Year 5	1,107,665	32%	1,107,665	32%	664,599	19%	110,766	3%

Note: Percent calculated as a percent of total SB dollars.

10114-087-120505

Figure 2 Jacobs Sverdrup Small Business Subcontracting Plan (% of TCV)

Contract Year	SB		SDB		WOSB	
	$	%	$	%	$	%
Year 1	3,278,137	31%	1,691,942	16%	634,478	6%
Year 2	3,214,928	31%	1,659,318	16%	622,244	6%
Year 3	3,250,201	31%	1,677,523	16%	629,071	6%
Year 4	3,346,957	31%	1,727,462	16%	647,798	6%
Year 5	3,433,760	31%	1,772,263	16%	664,599	6%

Contract Year	VOSB		SDVOSB		HUBZone		HBCU/MI	
	$	%	$	%	$	%	$	%
Year 1	1,057,464	10%	1,057,464	10%	634,478	6%	105,746	1%
Year 2	1,037,074	10%	1,037,074	10%	622,244	6%	103,707	1%
Year 3	1,048,452	10%	1,048,452	10%	629,071	6%	104,845	1%
Year 4	1,079,664	10%	1,079,664	10%	647,798	6%	107,966	1%
Year 5	1,107,665	10%	1,107,665	10%	664,599	6%	110,766	1%

Note: Percent calculated as a percent of Total Contract Value (TCV)
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we discuss in Section 3.0 and Section 3.2 of this plan, a portion of our subcontracting goals will be met through other arrangements such as equipment and materials purchases.

2.1.1 Methods Used to Develop Goals

After a thorough review of your RFP, SOW, and the capabilities that our teammates have to offer as evidenced by their current and previous work at TEC and elsewhere, we devised goals that were fair and equitable and will allow our teammates to grow. Additionally, our goals not only guarantee our teammates a significant portion of the contract value, they allow us to have latitude to procure materials and services from other sources while maintaining our teaming commitments.

Indirect costs were not used in establishing these goals. All costs are direct to this contract other than home office G&A expenses. We do not track small business participation within this indirect cost pool of G&A.

2.1.2 Achieving SB Goals

We will manage the dollar value of work assigned to our SB/SDB teammates to assure their guaranteed amounts are met under the terms and conditions of our teaming agreements. As noted in Figure 3, as a result of the work shares assigned to our SB teammates we will also exceed the WOSB goal of 5%, HUBZone small business goal of 2%, VOSB goal of 2%, and the SDVOSB goal of 2%. Our ITMA combined with our guarantees of work under our TEC teaming agreements and our plan to procure other services, including labor and materials, through SBs other than our teammates positions us to meet/exceed your SB participation goals. In particular we anticipate building on existing relationships with New Mexico State University – a registered Minority Institution – and other local HBCU/MIs to provide specialty services to the TEC effort in areas such as instrumentation development, specialized data acquisition and controls systems design, test data analysis, and process development. Through the careful management of this process, we will assure your overall SB goal of 30% will be

Figure 3 SB Subcontracting Goals Exceeded Per JS Teaming Agreements				
Categories	Dollars Allocated Per Teaming Agreements	Proposed % of TCV	NASA SB Goal (%)	Delta Exceeded
Small Disadvantaged Business	8,528,508	16%	16%	0%
Women Owned Small Business	3,198,190	6%	5%	1%
HUBZone Small Business	3,198,190	6%	2%	4%
Veteran Owned Small Business	5,330,317	10%	2%	8%
Service Disabled Veteran Owned Small Business	5,330,317	10%	2%	8%
Historically Black College or University/Minority Institution *	0	0%	1%	–

** We will meet or exceed this goal through procurement of services and materials from qualified HBCU/MI, such as support from New Mexico State University.*

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satisfied, and all of your SDB, WOSB, VOSB, SDVOSB, HUBZone, and HBCU/MI participation goals will be met.

2.2 History of SB Subcontracting

As one of the largest NASA and DOD engineering support contractors, JS has several prime contracts, which include considerable subcontracting to SBs and SDBs. In an average year, nearly 20% of our total contract revenue (for contracts with subcontracting goals of more than 1%) is subcontracted to small business, with more than half of that awarded to SDBs. On our 11 current contracts with SDB subcontracting goals (total contract value: $2.09B), we subcontract nearly $331M to SDBs – exceeding the weighted average goal of 13.8% of the total contract value by subcontracting 15.8% (weighted average) of the total contract value.

As shown in Figure 3 our ability to meet similar SB/SDB subcontracting goals has been demonstrated on our Government technical services contracts with staff sizes reaching up to 2,000 personnel, and involving SB and SDB subcontracting requirements ranging from 15% to 40%. Our strong performance record of living up to our subcontracting commitments is evidenced by the numerous awards we have received:

- **National Association of Small Disadvantaged Businesses' President's Award in 2004** – Presented to Bill Birkhofer, Vice President, Jacobs North America Public Sector
- **Small Business Administration's Award of Excellence in 2003** – Presented to our Marshall Space Flight Center Group
- **Corporation of the Year in 2002** – Space Coast Chapter of the Florida Minority Supplier Development Council
- **Coordinator of the Year in 1999 and 2002** – Space Coast Chapter of the Florida Minority Supplier Development Council
- **Goldin-Stokes Award in 2001** – Presented to our Marshall Space Flight Center Group for our mentor-protégé program with a WOSB
- **DOD Nunn-Perry Awards in 1999 and 2000** – Presented to our parent company, Jacobs, to recognize our mentor-protégé teams for working together to achieve cost efficiencies, enhance our SB protégés' technical capabilities, and increase new business prime contracting and subcontracting opportunities with DOD

- **Industry Advocate of the Year in 1998, 1999, and 2000** – Presented to JS by the National Association of Small Disadvantaged Businesses
- **Industry Executive of the Year in 1998** – Presented to our President by the National Association of Small Disadvantaged Businesses

3.0 Description of Suppliers/Services to be Subcontracted

We selected our teammates because of their expertise across the broad range of disciplines included within the TEC SOW. As a result, we are able to employ our ITMA that allows us to apply our teammates across the full range of the SOW functions, thereby enjoying the same exposure to technical challenges that we perform as the prime contractor – with assigned responsibilities throughout our organization. Using our ITMA, we can ensure work will be distributed to meet the percentages in our teaming agreements. We will work with our small business plan administrator to locate labor opportunities for SBs outside our team, as discussed in Section 3.2, below.

3.1 JS Teammate Services

ERC, GeoControl Systems, and Muñiz Engineering are all part of our ITMA for the TEC contract and, as such, have broad responsibilities across the SOW – providing them with additional opportunities to build their business experience. Strong leadership and mentoring by the JS TEC Team Program Manager will ensure that teammate performance is sustained at high levels across the TEC contract. Our approach ensures that the JS TEC Team operates as a single entity for the TEC contract and provides a diverse range of opportunities for the growth of our SB teammates' technical and management capabilities.

3.2 Other Procurement

Any additional SB subcontracting goals will be achieved through our procurement activity. We will procure a wide variety of materials, equipment, supplies, and labor services from qualifying concerns, focusing on those in the Las Cruces area. We will also use external sources, such as the Central Contractor Registration (CCR) database (which recently merged with PRO-Net), for identifying potential other contractors. Whenever possible, we will contract with qualified small businesses to provide additional labor, as well as materials, supplies, equipment, and services.

JS has structured our teaming agreements to allow the purchasing of materials through our teammates in instances where this is desirable to minimize cost to our customers. For example, JS can leverage our teammates' established preferred vendor/supplier relationships with numerous firms to take advantage of cost savings that would not otherwise be available. We will carefully manage such procurements to prevent compounding the application of additional overhead on G&A charges billed to the Government for materials purchases.

4.0 Methods of Identifying Potential Sources

JS has many years of experience teaming with small businesses on technically complex contracts. Our experience demonstrates that the majority of subcontract requirements

are of the same technical nature as work performed by JS as a prime contractor. Additionally, we continually and actively seek procurement opportunities outside our teaming agreements in order to fulfill mandated SB requirements and to provide the best customer service possible. In addition to our in-house databases, we continually comb other venues for SB procurement opportunities, using CCR, veterans service organizations, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or SB, HUBZone, SDB, and WOSB trade associations.

In addition, JS is a member of the National Minority Supplier Development Council (NMSDC), which assists us in identifying small business suppliers. We also use our JS Enterprise Management System (JSEMS) to locate, track, and evaluate suppliers in the company's network of approximately 500 small business category vendors across the country. This gives us the ability to select pre-qualified vendors based upon their record of past performance.

4.1 Evaluation Criteria for Selection of Subcontractors

Factors we considered to evaluate potential teammates included the extent of technical expertise required by each SOW task, the subcontractor's skill applicable to the SOW tasks, and the subcontractor's alignment with Jacobs Sverdrup's business philosophy. In evaluating the capabilities of small business concerns JS used five primary criteria:

- **Broad Experience and Award-Winning, Proven Performance** – JS seeks firms with strong technical competence and extensive experience in required core competencies. Additionally, JS looks for strong records of award-winning past performance on work similar to the work being subcontracted. For TEC, we considered 30 companies as potential candidates before narrowing that number down to fewer than 10. We evaluated the relevant experience and past performance of a select group of candidate SB firms having experience in areas relevant to TEC requirements and exceptional technical and management performance on similar contracts. We expressly sought firms that had capabilities across the TEC SOW and corresponding contract management strengths. This would allow us to populate their personnel across our organization – versus pigeonholing or stovepiping them into limited SOW task areas. Such integration has proven highly effective for our other operating locations.
- **NASA Contract Experience** – Although not a prerequisite for selection, we did evaluate and determine if the potential small business candidates had experience supporting human space flight activities for NASA and other Government entities. As a long-time provider of support to NASA and DOD organizations, JS recognizes the unique mission demands, business environment, and specialized constraints placed upon a Government organization. We feel it is important that any of our potential teammates recognize the differences in supporting a Government agency versus a commercial customer.
- **Integrated Team Orientation** – JS prefers to treat major subcontractors as teammates. JS seeks potential teammates among those firms that function easily in an integrated product team environment and have demonstrated excellent performance in that environment. We required that our partners have cultures and

company practices similar to our own relative to exceptional customer focus, a highly-focused and proactive emphasis on safety for our people and our sites, fiduciary responsibility and ethics, cost-effective management approaches, decision-making based on a long-term perspective, emphasis on technical excellence and a commitment to professional integrity at every level of the organization. We recognized the importance of sharing common corporate values in creating a totally integrated team with stability and unity. For the TEC, we will exploit the full value of a JS best practice: our Integrated Team Management Approach (ITMA). As part of ITMA, JS and our teammates function as a fully integrated team with all members operating as a single unit. Our team approach operates without organizational barriers and to a common set of policies and procedures that control all aspects of contract performance. From NASA's perspective, all of our interactions and communications with NASA are independent of company affiliation and work assignments are made based on the availability of the right skill for the task rather than a pre-arranged assignment of responsibility to a particular company.

- **Long-Term Relationships** – JS is interested in firms that can provide subcontract support on a long-term basis to coincide with our preference to treat subcontractors as teammates. JS seeks firms that have demonstrated an ability to sustain service to clients over an extended period of time.
- **Competitive Pricing** – An important criteria in our search for teammates is their proven ability to deliver high-quality service at a competitive price. Just as Government acquisitions focus on best value, we evaluate potential teammates on more than just the cost of service. Their demonstrated performance in safety, quality, delivery, and relationships are all considered in addition to cost. We recognize that, as a prime contractor, we have a responsibility to our Government customer to provide services across our team that respond to the SOW requirements and represent the overall best value for the contract. We evaluate each of our teammates direct and indirect rate structures and make an independent determination of their cost reasonableness.

In addition to the teammates we have selected for the TEC effort we recognize that there will probably be significant requirements for services from other subcontractors and suppliers over the course of the contract. We apply similar requirements for performance, quality, commitment, and price to all of our acquisitions on the contract and follow ISO-approved processes that ensure the fair and consistent application of decision criteria and evaluation to all vendor selections. As discussed in Section 5.1 of this plan, we include a number of proactive approaches in our small business procurement strategies that are specifically focused on developing a cadre of highly qualified, responsive, and best value small business partners.

4.2 Down Selection Process

Using the comprehensive requirements outlined in Section 4.1, above, and information from the sources named above, we evaluated more than 30 diverse candidate companies. We then narrowed our search to firms with NASA support experience and weighted our criteria to those with broad-based experience across the various SOW technical areas (versus those only having experience in niche areas). Of the remaining

pool meeting these stringent criteria, we downselected to the three firms we introduced in Section 1.0 of this plan: ERC, GeoControl Systems, and Muñiz Engineering.

For acquisitions for services and supplies outside of our teammate structure we will develop procurement processes specifically tailored to the requirements of the TEC. These processes will include sole-source procurements where requirements demand that approach, sealed bids where the procurement is for products that are readily specified, competitive acquisitions for complex procurements, and blanket purchase authorizations where routine and repetitive purchases offer a price advantage. In each case our selection of vendors will focus on providing ample opportunities to small business that can meet our procurement standards. We will work with small businesses to assist them in understanding our unique purchasing requirements without providing a competitive advantage to any business. Our down selection process will always focus on ensuring that we – and our suppliers – deliver the highest quality service for the TEC contract. Our processes will include a procurement review by management to ensure that processes are followed and our procurement personnel will be fully trained in procurement integrity requirements and procedures.

5.0 Subcontract Administration

Jim Edwin, our JS TEC Team Business Manager, has been delegated responsibility for the overall small business subcontracting program and goals for this contract. Jim will act as Contract Administrator for the Small Business Subcontracting Plan and will coordinate its execution and will be assisted in this effort by our JS Contracts Specialist, Dan Sweet. Dan will provide guidance and support in implementing our subcontracting plan to meet contract-specific requirements. Dan has more than 30 years of experience in contract management.

Jim and Dan will ensure appropriate attention is focused on the SB, SDB, WOSB, HUBZone, VOSB, SDVOSB, and HBCU/MI subcontracting concerns. Their duties include:

- Fully supporting Government and corporate policies and procedures concerning the small business program
- Continually reviewing the records and procedures to ensure compliance with the subcontracting policy and Small Business Subcontracting Plan
- Providing a liaison function with appropriate Government agencies, other associations, and councils concerning small business promotion
- Cooperating fully in any small business study or survey as requested by the Government
- Providing the Program Manager and other levels of management with periodic reports concerning small business utilization
- During make-or-buy decisions, evaluating potential for subcontract activities for SB concerns
- Providing semi-annual and annual reports (SF 294 and SF 295)
- Overseeing compliance with this Plan
- Performing necessary reviews to measure performance against the Plan, reporting this status to the Program Manager and our corporate management

- Preparing and submitting periodic reports concerning the status of the Plan to the designated NASA recipients
- Soliciting subcontract proposals and negotiating, preparing, and administering subcontracts
- Maintaining records of subcontracting opportunities

As our JS Contracts Specialist, Dan will incorporate the JS TEC Team small business reports into corporate files and normal reporting methodology, as well as coordinate activities arising out of this procurement with the SBA, the local business community, the Government Contracting Representative, and other associations, councils, or foundations. Other elements of our approach to subcontract administration for this contract are discussed below.

5.1 Ensuring Equitable Opportunities for SB, SDB, WOSB, HUBZone, VOSB, SDVOSB, and HBCU/MI

JS will make every reasonable effort to assure that all small business concerns have an equitable opportunity to compete for subcontracts. In addition to publicizing subcontracting opportunities and continuing our active involvement in outreach, assistance, and counseling for SB, SDB, WOSB, HUBZone, VOSB, SDVOSB, and HBCU/MI concerns, we will engage in the efforts described below.

Subcontracting Policy – JS does not maintain a Master Subcontracting Plan. Instead, we develop individual plans for each of our organizational segments (Groups).

Management Interest and Involvement – The high level of interest and involvement demonstrated by JS management personnel in our subcontracting efforts is acknowledged industry wide. Our company president, Rogers Starr, is closely involved in making our teammate selection and ensures that we continue to encourage and support the development of our small business partners. Rogers is briefed on all current and proposed contracts with small business concerns, as well as the performance of each JS group in achieving its small business goals. In turn, senior-level corporate managers are briefed to ensure current awareness of the Government's concern in SB, SDB, WOSB, HUBZone, VOSB, SDVOSB, and HBCU/MI contracting. A key resource in this regard is Nick Kolesnikoff. Based in Washington, D.C., Nick functions as the Jacobs Corporate liaison for small and small disadvantaged business policy and outreach, supporting all Jacobs operating companies. In this role, he interacts regularly with federal agency SB, SDB, WOSB, HUBZone, VOSB, SDVOSB, and HBCU/MI utilization and procurement activities, including NASA, DOD, and the SBA. Nick's responsibilities include:

- Advising and assisting Jacobs operating companies in interpreting and applying laws, regulations, and policies governing SB subcontracting
- Assisting our business units in identifying SB firms to fulfill specific subcontracting requirements
- Facilitating introduction of these firms to Jacobs technical and contract management personnel
- Identifying SB, SDB, WOSB, HUBZone, VOSB, SDVOSB, and HBCU/MI candidate firms for upcoming DOD, NASA, and other federal procurements

- Assisting in development and implementation of an integrated small business partnering approach, to include long-term teaming and formal mentor-protégé agreements
- Representing Jacobs in meetings/presentations with and to SB, SDB, WOSB, HUBZone, VOSB, SDVOSB, and HBCU/MI associations
- Directing the activities of consultants retained by Jacobs business units to assist in SB, SDB, VOSB, SDVOSB, WOSB, HUBZone, and HBCU/MI outreach activities

Personnel Motivation and Training – Our proposed SB Subcontracting Plan administrator (Jim Edwin) and other key personnel have completed Government-approved courses and attended meetings sponsored by the SBA. Additionally, several of our key personnel have directly relevant experience with small business goals management and SB mentoring.

Special Assistance – JS will assist SB concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules to facilitate SB participation. If our lists of potential SB subcontractors are excessively long, we will make every reasonable effort to give these firms an opportunity to compete over a period of time. We will give assistance to SB firms in preparing proposals for technical support for which they are qualified. We will routinely discuss potential business with those firms identified for use through daily business activities.

Make-or-Buy Consideration – JS will provide adequate and timely consideration of the potential use of SB concerns in all "make-or-buy" decisions. Where feasible, we plan to buy from qualified SBs.

Discussion of Opportunities – We will counsel and discuss subcontracting opportunities with representatives of SBs.

Notice of Penalties for Misrepresentation – JS will provide notice to subcontractors concerning penalties and remedies for misrepresentation of business status as SB, SDB, WOSB, VOSB, SDVOSB, HUBZone, and HBCU/MI for the purpose of obtaining a subcontract to be included as part or all of a goal contained in this plan.

5.2 Clause Flow Down

All subcontracts awarded that offer further subcontracting opportunities will include the clause at FAR 52.219-8, Utilization of Small, Small Disadvantaged and Women-Owned Small Business Concerns. In addition, all subcontractors, other than small business concerns, who receive subcontracts in excess of $500,000 will be required to adopt or develop a plan similar to this one.

5.3 Cooperation with Studies and Surveys/Submission of Reports

Pursuant to FAR 19.704 (a)(10), JS will cooperate in all required studies and/or surveys and will submit the following:

- Periodic reports/reviews will be submitted SB to allow the Government to determine the extent of the group's compliance with this Subcontracting Plan
- Standard Form 294, Subcontracting Report for Individual Contracts, and/or Standard Form 295, Summary Subcontract Report, will be submitted as required
- JS will ensure that its subcontractors agree to submit SF 294 and 295, as required

5.4 Record Keeping

JS maintains contract files at our home office in Tullahoma, TN, as well as in the business offices of all our segments, which contain all necessary subcontract data for Government review of SB, SDB, WOSB, VOSB, SDVOSB, HBCU/MI, and HUBZone compliance efforts. These files can be accessed by any organizational segment within JS and are available for Government review.

6.0 Timely Payments

Our policy is to render payments in a timely manner, and accordingly our TEC Business Systems Office will ensure timely payments to our subcontractors. Consistent with our current policy based on FAR requirements, invoices for services and products will be paid in accordance with the terms of the service and product providers' invoice. We do not hold back payments to our vendors until we have received payment from the Government. Our JS TEC Team will use established procedures to send payments via express mail or electronic transmission, or to pay in advance when our criteria and milestones indicate such action is appropriate.

7.0 Description of Good Faith Effort

JS is committed to meeting or exceeding our small business subcontracting goals. Our ability to successfully partner with small businesses is demonstrated through the recent awards bestowed upon JS executives by the National Association of Small Disadvantaged Businesses; our company President was named 1998 Industry Executive of the Year; and our Washington, D.C., liaison was named 1998 Industry Advocate of the Year. Recently, we received the Small Business Administration's Award of Excellence. As standard good faith policy, JS counsels and discusses subcontracting opportunities with representatives of small business concerns. We provide assistance to small business concerns by arranging solicitations and allowing ample time for preparation of bids, specifications, and delivery schedules to facilitate the participation of small business concerns in all "make-or-buy" decisions and provide notice to subcontractors concerning penalties and remedies for misrepresentation of business status as a SB, SDB, WOSB, VOSB, SDVOSB, HUBZone, and HBCU/MI for the purpose of obtaining a subcontract that is to be included as part or all of a goal contained in our TEC Small Business Subcontracting Plan.

8.0 Conclusion

Our approach to small business subcontracting provides the Government with qualified subcontractors who will not only bring the best value to the contract, but who also come from a diverse background. This approach includes in-place agreements with three strategic partners, ERC, GeoControl Systems, and Muñiz Engineering, who will provide on-site services as integrated members of our JS TEC Team. Our approach also includes an extensive selection of SB firms available to provide labor, equipment, materials, supplies, and services. By leveraging the capabilities of our outstanding subcontract teammates across SOW functions and by using our identified sources of SB, SDB, WOSB, VOSB, SDVOSB, HUBZone, and HBCU/MI for procurement, we will achieve every goal of our TEC Small Business Subcontracting Plan.

PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

ATTACHMENT J-10 - WSTF TRAINING PROGRAM DESCRIPTION

Training topics are maintained as necessary to successfully fulfill contract requirements. Training deliveries (actions) are performed either one time to establish a basic competency, or are performed periodically as required to fulfill regulatory/customer requirement or as necessary to refresh competency. The data below represents training relevant specifically to TEC contract performance, as well as training that is relevant to both the FOSC and TEC contracts. Status of training relevant to TEC contract performance must be reported to FOSC.

Training Topic	TEC-Related Active Training Actions
9001/2001 ISO Familiarization	224.5
ACA Coordinator	4
Annual Hearing Conservation Training	4
Conducting Investigations	8.5
Contractor Business Applications	23.5
Create a Positive Impression	8.5
Critical Components Handling	50.5
Critical Lift Engineer	13.5
Critical Lift Equipment Instructor	0.5
Cryogenic Liquid Handling	4
Designated Verifier	34
DuPont Training for Supervisors & Work Team Leaders	17
ED-0026 Flexhose Assembly	1
Emer. Serv., Confined Space Entry - Standby Personnel	7.5
Emergency Life Support Apparatus (ELSA)	7
Ergonomic for Supervisors	5.5
Flexhose Assembly - 1500 psi	1
Flexhose Assembly - 3000 psi	1
Flexhose Assembly - 6000 psi	1
Flexhose Inspection	9.5
Gathering Information	6.5
HSE Manager Training	30
Influence and Leadership	10
Initial Hearing Protection Training	22
Introduction to Toxicology	4
ISO 9001 Familiarization	164.5
Lead Awareness Training	50.5
Liquid Hydrogen Handler	9
Materials Handling	33.5
MD01, Medical Exam - DOT Physical for CDL	2.5
MD02, Medical Exam - Respiratory	161
MD03, Medical Exam - Air Purifying Respiratory	0.5
MD04, Medical Exam - ILC	96

MD05, Medical Exam - SCBA	97.5
MSA Breathing Apparatus Maint. & Rpr.-Lvl I Insp./Maint.	1.5
MSA Breathing Apparatus Maint. & Rpr.-Lvl II Tstng/Rpr	1.5
MSA Breathing Apparatus Maint. & Rpr.-Lvl III Advanced M/R	1.5
Overview of WSTF Document System	33
Personal Protective Equipment Operation	4.5
Pressure System Requirements Familiarization	39.5
Pressure Vessel Familiarization	4
Pressure Vessel Safety Standards for Personnel Exposure	4
PV/S Pressure System Engineer	7
PV/S Process Training Class	47.5
PV/S System Engineer	26.5
Quality Assurance - Bulk Fluids and Chemical Acceptance	15.5
Root Cause Analysis and Corrective Action (RCCA)	33.5
S&MA Professional	9
SAF-05 Hazardous Test Area Access Training	314
SAF-06 Confined Space Entry	183
SAF-07 Confined Space Entry - Air Monitor	38
SAF-07A Confined Space Air Monitor - Passport	41.5
SAF-08 Clean up of Blood borne Pathogens	1
SAF-09 Advanced First Aid	8.5
SAF-14 (Lockout/Tagout) Control of Hazardous Energy Sources	184.5
SAF-14A Lockout /Tagout for Affected Persons	67
SAF-15 Personal Protective Equipment (PPE)	210.5
SAF-16 Respirator - AP (air purifying neg. press.)	78.5
SAF-17 Respirator - Airline	77
SAF-19 Respirator - SCBA (self-contained breathing apparatus	85
SAF-20 Respirator - Abrasive Blast Helmet (Sandblaster)	4.5
SAF-22 Respirator - Dust Mask	74
SAF-23 Respirator - Fit Test	44.5
SAF-23A-L 1/2 Face MSA/Comfo Elite Fit Test/Training	21
SAF-23A-M 1/2 Face MSA/Comfo Elite Fit Test/Training	21.5
SAF-23A-S 1/2 Face MSA/Comfo Elite Fit Test/Training	0.5
SAF-23B-L 1/2 Face MSA Comfo II Fit Test/Training	2

SAF-23B-M 1/2 Face MSA/Comfo II Fit Test	12
SAF-23B-S 1/2 Face MSA/Comfo II Fit Test	0.5
SAF-23C-L 1/2 Face MSA/Comfo Fit Test	22
SAF-23C-M 1/2 Face MSA/Comfo Fit Test	23
SAF-23C-S 1/2 Face MSA/Comfo Fit Test	1
SAF-23D-L SCBA/MSA/2216/4500/Ultralite Fit Test	7.5
SAF-23D-M SCBA/MSA/2216/4500/Ultralite Fit Test	58
SAF-23D-S SCBA/MSA/2216/4500/Ultralite Fit Test	1.5
SAF-23E-L SCBA/MSA/4500/Ultravue Mask Mount/ Fit Test	3
SAF-23E-M SCBA/MSA/4500/Ultravue/Mask Mount/ Fit Test	34
SAF-23E-S SCBA/MSA/4500/Ultravue/Mask Mount/Fit Test	4.5
SAF-23F-L 1/2 Face MSA/Comfo Classic Fit Test	4
SAF-23F-M 1/2 Face MSA/Comfo Classic Fit Test	9
SAF-23F-S 1/2 Face MSA/Comfo Classic Fit Test	0.5
SAF-23F-T-Full Face	33
SAF-23F-T-Half Face	30.5
SAF-23G-LFull Face MSA/Ultra Twin (AP) Fit Test	2.5
SAF-23G-M Full Face MSA/Ultra Twin (AP) Fit Test	12.5
SAF-23G-S Full Face MSA/Ultra Twin (AP) Fit Test	0.5
SAF-23H-L Full Face MSA/Ultra Elite Fit Test	3
SAF-23H-M Full Face MSA/Ultra Elite Fit Test	7
SAF-23H-S Full Face MSA/Ultra Elite Tit Test	0.5
SAF-23I-L Air Line/MSA/Ultra Elite Fit Test	4
SAF-23I-M Air Line MSA/Ultra Elite Fit Test	23.5
SAF-23I-S Air Line MSA Ultra Elie- Fit Test	1
SAF-23J-L Air Line MSA/Ultravue Fit Test	8
SAF-23J-M Air Line MSA/Ultravue Fit Test	56
SAF-23J-S Air Line MSA/Ultravue Fit Test	1
SAF-23K-L SCBA/MSA/Ultra Elite Fit Test	1
SAF-23K-M SCBA/MSA/2216/4500 Ultra Elite Fit Test	9
SAF-24 Safety Excellence	164
SAF-25 Hazard Communication	207
SAF-25A Hazard Communication - Substance Specific	24
SAF-26 Bloodborne Pathogens	63
SAF-27 Heat Stress Prevention	149

SAF-28 Fall Protection	118
SAF-29 Cardiopulmonary Resuscitation (CPR)	24.5
SAF-30 Emergency Prepardness & Response	144
SAF-32 Hearing Conservation	28
SAF-33 Hantavirus Information	123.5
SAF-35 Defensive Driving	15
SAF-40 ELSA	4
SAF-41 Forklift Equipment Operator	115
SAF-43 Ergonomics - Computer Work Station & Lifting Safety	100.5
SAF-44 Job Hazard Analysis	101
SAF-46 Engineering Control Devices	153
Safety Professional	3.5
Supervisor Safety Training	48.5
Swagelok Fitting	24
SWT-001 New Hire Part 1	229.5
SWT-005 Pressure Systems	2.5
SWT-007 Calibration	2.5
SWT-017 HTSI New Hire Orientation	13.5
SWT-02 New Hire Part Two	294.5
Timekeeping Policies and Procedures	139
TPS/DR I - Familiarization	117.5
TPS/DR II - Signature Responsibilities OJT	16.5
TPS/DR III - Final Signature Authorization	116.5
WSTF Internal Auditor	30.5
WSTF ISO 9001/2000 Internal Auditor	24
WSTF Workmanship Standards	18
250 Area LH2/GH2 High Flow Test Electrical Technician	1
250 Area LH2/GH2 High Flow Test Facility Technician	6
250 Area MTF HP Supply & Storage Sys.	22
250 Area Orientation	24
800 HP Gaseous Oxygen Supply & Storage	39
Aft RCS Rotation Fixture Inspector	2
Analytical Serv., Ion Chromatography Analyst	1
Analytical Serv., ARC Oper.(Accelerating Rate Calorimeter)	1
Analytical Serv., Chemical Hygiene Officer	1
Analytical Serv., Clean Room Support Analyst	12
Analytical Serv., Clean Work Station Certifier	10
Analytical Serv., Compressed Gas Handler	18
Analytical Serv., Cryogenic Analyst	7
Analytical Serv., Dye Penetrant Inspector - Lvl I	1
Analytical Serv., Dye Penetrant Inspector - Lvl III	2
Analytical Serv., Environmental Sample Preparer	4

Analytical Serv., Flash Radiographer - Lvl I	2
Analytical Serv., Flash Radiographer - Lvl III	5
Analytical Serv., Flight Hardware Sample Loader	7
Analytical Serv., Gas Analyst	10
Analytical Serv., Hydrazine Fuels Analyst	12
Analytical Serv., Interscan Analyzer Oper.	246
Analytical Serv., IPA Analyst (Isopropyl Alcohol)	7
Analytical Serv., Liquid Chromatography Analyst	9
Analytical Serv., LN2 Dewar Filler	111
Analytical Serv., Magnetic Particle Inspector - Lvl III	2
Analytical Serv., Mercury Analyst	2
Analytical Serv., Odor Test Conductor	1
Analytical Serv., Offgas Analyst	8
Analytical Serv., Offgassed Compound Interpreter	3
Analytical Serv., Oxidizer Analyst	12
Analytical Serv., Quality Assurance Chemist	2
Analytical Serv., Radiographic Inspector - Lvl I	1
Analytical Serv., Radiographic Inspector - Lvl II	1
Analytical Serv., Radiographic Inspector - Lvl III	2
Analytical Serv., Surface Area Analyst	1
Analytical Serv., Test 15 Analyst	8
Analytical Serv., Ultrasonic Inspector - Lvl III	1
Analytical Serv., VCM Operator	4
Analytical Serv., Water Analyst	8
Aqueous Cleanliness Verification	4
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Area Ordnance Handler	20
ARPCS: Electrical Connector Mate/Demate	9
Assistant WSTF Ordnance Officer	1
ATSC-PD-038 TS-302 Steam & Altitude System Operations	5
AWS Associate Welding Inspector	1
AWS Certified Welding Inspector	5
Cajon Orbital Welding	5
Clean Room Familiarization	38
Clean Room Principles & Practices	134
CMM Operator	6
CMM Programmer	2
Component Disassembly	5
Component Reassemb. & Funct'l Tst-Lvl I Manual Valves & Halo	4
Component Reassemb. & Funct'l Tst-Lvl II Ck & Press. Safety	4

Component Reassemb. & Funct'l Tst-Lvl III Regulators & Remot	3
Controlled Storage Custodian Training	1
CTF - ORCA Project Manager (PM)	1
CTF-OMS Project Manager (PM)	2
CTF-QCV Project Manager (PM)	2
CTF-RCS Project Manager (PM)	2
Datapack Requirements	7
Decontamination of Fuel & Oxidizer Components	12
Depot PRCS Operations	7
Depot QA Analyst - PRCS/VRCS Level I	6
Depot QA Analyst -PRCS/VRCS Level II	6
Depot QA Qualification	7
ED-0001 Decontamination of Fuel & Oxidizer Components	6
ED-0002 Preclean Training	3
ED-0003 Final Clean Training	3
ED-0004 Hydrostatic Test Training	4
ED-0005 Component Disassembly Training	4
ED-0006 Lvl I Component Reassemb. & Functn'l Tst Trng - Man	4
ED-0008 MSA Breathing Apparatus Maintenance & Repair	4
ED-0010 Mechanical Calibration	5
ED-0011 Electrical Calibration	5
ED-0011.1 Reference Standards	2
ED-0011.2 DC and Low Frequency AC	4
ED-0011.3 Oscilloscopes	4
ED-0011.4 Health and Safety	4
ED-0011.5 Microwave	2
ED-1002 TSS Principles & Practices	15
Electrical Calibra. - Communication 2-Way Radio	1
Electrical Calibra. - Counters	2
Electrical Calibra. - Digital Voltmeters	2
Electrical Calibra. - Microwave	1
Electrical Calibra. - Resistance Decade	2
Electrical Calibra. - Timing Systems	2
Electrical Connector Assembly - for PRCS Thrusters	1
Electron Beam Welder Operator	1
Electron Beam Welder Operator Training	1
Explosives and Explosive Gases Safety Measures	8
Fabrication Quality Assurance Specialist	2
Final Cleaning	5
GOX High Flow Test Facility (250 Area)	9
H2 Flow Control Valve Assembly Technician	1

HEBF Instrumentation Sys. Oper. - Lvl II	2
HEBF Instrumentation Sys. Oper. - Lvl III	2
HFTA MTF HP Gaseous Oxygen Supply & Storage Sys.	17
High Pressure Systems Technician (HPST)	23
HITL QA Specialist	6
HVI Gun Operator, 7.6mm (.30 caliber)	1
HVI Operator, Experimental Range/4.3mm (.17 caliber) 2SLGG	6
HVI Operator, Large Caliber Range/25.4mm (1 inch) 2SLGG	5
HVI Operator, Non-Hazardous Range Gun A/4.3-mm (.17-Caliber)	2
HVI Operator, Non-Hazardous Range/12.7mm (.50 caliber) 2SLGG	4
HVI Operator, Small Caliber Range/4.3mm (.17 caliber) 2SLGG	3
HVI Test Engineer, Experimental Range/4.3mm (.17 caliber) 2S	6
HVI Test Engineer, Large Caliber Range/25.4mm (1 inch) 2SLGG	3
HVI Test Engineer, Non-Hazardous Range/12.7mm (.50 caliber)	3
HVI Test Engineer, Small Caliber Range/7.6mm (.17 caliber) 2	2
Hydrostatic Testing	4
Hypergolic Propellent Hazardous Waste Handler	40
Infrared Thermography	1
Instrumentation and Control System Safety	8
Laboratories HAZCOM	41
Laboratories Office Document Control Process	8
Laboratories Office Project Management Process	11
Laboratories Project Leader	38
Laboratory Quality Assurance Specialist	4
Laser and Optical Laboratory Area Familiarization	5
Laser Operator - Argon/Ion (5 Watt) - Class IV	9
Laser Operator - HeNe/Laser Diode (<30mW) - Class IIIb	24
Laser Operator - N2/Dye - Class IIIb	5
Laser Operator - Pulsed Laser Diode - IIIb	21
Laser Operator-C02(25W) Class IV	8
LeCroy Data System Operator - Level I	9
LeCroy Data System Operator - Level II	6
LO Area Specific Hazardous Communications	8
LO Project Manager	8
LVL QA Specialist	6

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MCT System - Electrical Technician (HVI)	3
MCT System - Logistics Engineer	3
MCT System - NASA Manager	9
MCT System - Odor Panel Member	16
MCT System - Odor Panel Nurse	2
MCT System - Odor Panel Technician	6
MCT System - Preparation Engineer	3
MCT System - Preparation Technician	7
MCT System - QA Representative	4
MCT System - Report Reviewer	6
MCT System - Technical Editor	5
MCT System - Test Coordinator	3
MCT System - Test Scientist (HVI)	5
MCT System - Test Scientist (MDAL)	13
MCT System - Test Scientist (MTG)	5
MCT System - Test Technician (HVI)	7
MCT System - Test Technician (MTG)	5
MCT System - VCM Technician	5
MCT System - Xray Photo Scientist (HVI)	4
Mechanical Calibra. - Air Velocity Meters	1
Mechanical Calibra. - Angular Measurement	1
Mechanical Calibra. - Compressible Fluid Flowmeter	3
Mechanical Calibra. - Crimpers & Strippers	4
Mechanical Calibra. - Differential Press. Gauges & Transduce	3
Mechanical Calibra. - Flow Reference Standards	1
Mechanical Calibra. - Incompressible Fluid Flowmeter	3
Mechanical Calibra. - Linear Measurement	2
Mechanical Calibra. - Mass Measurement	1
Mechanical Calibra. - Mech. Force Gauges & Load Cells	4
Mechanical Calibra. - Optical Measurement	2
Mechanical Calibra. - Physical Reference Standards	1
Mechanical Calibra. - Platinum Resistance Thermometers	2
Mechanical Calibra. - Pressure Gauges & Transducers	4
Mechanical Calibra. - Pressure Reference Standards	3
Mechanical Calibra. - Temperature Gauges	4
Mechanical Calibra. - Temperature/Humidity Recorders	4
Mechanical Calibra. - Thermocouples	4

Mechanical Calibra. - Thermoelectric Gauges/Transducers	4
Mechanical Calibra. - Torque Gauges, Transducers, Wrenches	5
Mechanical Calibra. - Transient Pressure Transducers	2
Mechanical Calibra. - Vacuum Calibra.	2
Metallurgical Analyst	4
Net and Radio Discipline	11
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Operator (Chamber)	8
Operator (Leak Detector)	4
Operator (Vacuum System)	12
Ordnance Officer	1
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PD Aft RCS Rotation Fixture Operator/Inspector	2
PD Blockhouse Monitor	3
PD Breathing Air Compressor Training	3
PD Computer Test Panel Operator	8
PD CTF Electrical Technician	3
PD CTF Electrical Technician - PRCS/VRCS Flushing Operations	4
PD CTF Electrical Technician - PRCS/VRCS Thruster Repair	3
PD CTF Electrical Technician - Quad Check Valve (QCV) Operat	4
PD CTF Mechanical Engineer	5
PD CTF Mechanical Technician	3
PD CTF OMS Engine Mechanical Technician	1
PD CTF OMS Engine Test Conductor	1
PD CTF PRCS Thruster Mechanical Technician	1
PD CTF PRCS Thruster Test Conductor	1
PD CTF Quad Check Valve Mechanical Technician	1
PD CTF Quad Check Valve Test Conductor	1
PD CTF VRCS Thruster Mechanical Technician	1
PD CTF VRCS Thruster Test Conductor	1
PD DACS Computer Operator	2
PD Dynatube Polishing	6
PD Electrical Systems Engineer	4
PD Electrical Technician	10
PD Firing Console Oper. TS-301 (ARCS)	1
PD Firing Console Oper. TS-303 (IAPU)	1
PD Firing Console Oper. TS-328 #1 (FRCS)	1
PD Firing Console Oper. TS-328 #2 (FRCS)	1
PD Firing Console Oper. TS-328 #3 (FRCS)	1

PD Firing Console Oper. TS-328 #4 (FRCS)	1
PD Firing Console Oper. TS-401	3
PD Firing Console Oper. TS-402	1
PD Firing Console Oper. TS-403 (OMS)	3
PD Firing Console Oper. TS-405 (Liquid:PRCS)	2
PD How to Edit Documents	3
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PD JHA Review	142
PD LH2 Handler	6
PD Mate/Demate of Spacecraft QD's	6
PD Mechanical Engineer or PD Electrical Engineer	8
PD Mechanical Systems Engineer	8
PD Mechanical Technician	18
PD PRCS Thruster POV Repair Engineer	1
PD PRCS Thruster POV Repair Technician	2
PD Safety Console Oper.	5
PD Safety Wiring	6
PD Small Altitude Simulation System (SASS) Operations	4
PD Space Shuttle OMS/RCS (QD) Servicing	3
PD Spacecraft Welding Process (Astro-Arc)	2
PD Special Projects Test Conductor	2
PD Steam Generator Technician	2
PD Support Console Oper. TS-301 ARCS Facility	1
PD Support Console Oper. TS-301 ARCS Pro. & Press.	1
PD Support Console Oper. TS-302	1
PD Support Console Oper. TS-303 IAPU	1
PD Support Console Oper. TS-401 Fuel Fac. Control Sta.	3
PD Support Console Oper. TS-401 Oxidizer Control Station	3
PD Support Console Oper. TS-401 Universal Test Console	3
PD Support Console Oper. TS-403 Fuel/Oxidizer Control	2
PD Support Console Oper. TS-405 Universal Test Console	2
PD Test Conductor TS-302	1
PD Test Conductor TS-328 FRCS	1
PD Test Conductor TS-401	2
PD Test Conductor TS-402	1
PD Test Conductor TS-403 OMS	1
PD Test Conductor TS-405	1
PD Test/Flight Article Handling	56
PD Video System Oper. 300 Area	2

PD Video System Oper. 400 Area	4
PD Welding of Thermocouples on Flight Hardware	2
PD Weldlogic Orbital Welder	1
PD-015 Solid Rocket Safety	28
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PD-022 Solid Rocket Motor Familiarization	7
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PD-026 Fiber Optic Cable Terminations	7
PD-032 Electrical Connector Assembly	5
PD-035 Mechanical Principles	3
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PD-039 Servicing Astro Data Signal Conditioners	1
PD-040 Servicing Instrument Signal Conditioners	2
PDQ-001 Blockhouse Monitor	6
PDQ-002 Propulsion ILC Dover/TES	5
PDQ-004 CTF Electrical Technician - OME Repair	3
PDQ-005 CTF Electrical Technician - PRCS/VRCS Thruster Repai	4
PDQ-006 CTF Instrumentation & Control Systems Technician	3
PDQ-007 CTF OMS Engine Repair Mechanical Technician	2
PDQ-008 CTF OMS Engine Repair Test Conductor	1
PDQ-009 CTF PRCS Thruster Mechanical Technician	4
PDQ-010 CTF PRCS Thruster POV Repair Engineer	2
PDQ-011 CTF PRCS Thruster POV Repair Technician	3
PDQ-012 CTF PRCS Thruster Test Conductor	3
PDQ-013 CTF Quad Check Valve Mechanical Technician	2
PDQ-014 CTF Quad Check Valve Test Conductor	2
PDQ-015 CTF VRCS Thruster Mechanical Technician	4
PDQ-016 CTF VRCS Thruster Test Conductor	1
PDQ-017 CTF International Space Station Respiratory Support	2
PDQ-018 CTF International Space Station Respiratory Support	1
PDQ-019 Electrical Control Systems Engineer	5
PDQ-020 Electrical Controls System Technician	9

PDQ-021 Electrical Maintenance & Altitude Systems Engineer	1
PDQ-022 Electrical Maintenance & Altitude Systems Technician	2
PDQ-023 Console Operator - TS-301 ARCS	3
PDQ-024 Firing Console Operator - TS-303 IAPU	3
PDQ-025 Firing Console Operator TS-328 FRCS	2
PDQ-026 CTF OMS Engine Series Valve Repair Mechanical Techni	2
PDQ-027 CTF OMS Engine Series Valve Repair Test Conductor	1
PDQ-028 CTF VRCS Thruster Chamber/Standoff R&R Test Conducto	2
PDQ-029 Firing Console Operator TS-405 (PRCS/VRCS)	3
PDQ-030 Firing Console Operator TS-401 Non-Toxic propellants	2
PDQ-031 Firing Console Operator TS-403 OMS	1
PDQ-032 Instrumentation Engineer	5
PDQ-033 Instrumentation Systems Technician	7
PDQ-035 CTF VRCS Thruster Chamber/Standoff R&R Mechanical Te	1
PDQ-037 Mechanical Maintenance Engineer	5
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PDQ-046 Steam Generator Technician	3
PDQ-047 Steam Generator Test Conductor	1
PDQ-048 Support Console Operator- 400 Area Fuel and Oxidizer	1
PDQ-050 CTF OMS Engine Pneumatic Pack Repair Mechanical Tech	2
PDQ-051 Support Console Operator - TS 302	2
PDQ-053 Support Console Operator -TS-403 Fuel/Oxidizer Facil	1
PDQ-054 Support Console Operator- TS-405 Pressurization Cons	4
PDQ-055 Support Console Operator - TS-303 IAPU	3

PDQ-056 Test Conductor - TS-301 ARCS	1
PDQ-057 Test Conductor - TS-303 IAPU	2
PDQ-058 Test Conductor -TS-328 FRCS	2
PDQ-060 Test Conductor -TS-403 OMS	2
PDQ-061 Test Conductor -TS-405 PRCS/VRCS	3
PDQ-062 Test Stand 301 Mechanical Engineer- ARCS	1
PDQ-063 Test Stand 301 Mechanical Technician -ARCS	4
PDQ-064 TS-303 Mechanical Engineer - IAPU	2
PDQ-065 TS-303 Mechanical Technician - IAPU	7
PDQ-066 Test Conductor - TS-401 Non Toxic Engine Testing	1
PDQ-067 Test Stand 401 Mechanical Technician - Non Toxic	3
PDQ-068 Test Stand 403 Mechanical Engineer- OMS	2
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PDQ-070 Test Stand 405 Mechanical Engineer- PRCS/VRCS	3
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PDQ-072 Depot Bonded Storage Attendant	3
PDQ-073 Video System Operator (300 and 400 Areas)	4
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PDQ-076 Weldlogic Orbital Welder	1
PDQ-077 CTF Mechanical Technician	5
PDQ-080 Test Conductor - TS-401 Peacekeeper PBPS Testing	1
PDQ-081 Control System Operator - TS-401 Peacekeeper/Minutem	1
PDQ-082 Test Conductor - TS-401 RS72 Systems	1
PDQ-088 Test Conductor - TS-401 Minuteman	2
PDQ-089 CTF PRCS Thruster Chamber R&R Test Conductor	2
PDQ-090 CTF PRCS Thruster Chamber R&R Mechanical Technician	2
PDQ-096 Pines Bender Operator	2
PDQ-097 Test Stand 328 Mechanical Engineer- FRCS	2
PDQ-098 Test Stand 328 Mechanical Technician - FRCS	3

PDQ-099 TS-401 Mechanical Technician - Hypergolic Systems	6
PDQ-100 TS 401 Mechanical Engineer - Hypergolic Systems	4
PDQ-101 Firing Console Operator - TS-401 Delta II Test Prog	2
PDQ-105 Roll Around Data Acquisition and Control System (RAD	5
PDQ-106 CTF Parker Manual Valve Mechanical Technician	2
PDQ-107 - CTF Parker Manual Valve Test Conductor	1
PDQ-108 - CTF AC Motor Valve Mechanical Technician	1
PDQ-110 - CTF Pressure Relief Valve Mechanical Technician	3
PDQ-111 - CTF Pressure Relief Valve Test Conductor	2
PDQ-114 Boeing P.A.P	7
PDQN-001 NASA Propulsion Test Project Manager	9
PDQN-004 Chemical Steam Generator (CSG) Operations Director	1
PDQN-005 TS-301 Operations Director	5
PDQN-006 TS-302 Operations Director	1
PDQN-008 TS-328 Operations Director	5
PDQN-009 TS-401 Operations Director	3
PDQN-010 TS-402 Operations Director	3
PDQN-011 TS-403 Operations Director	4
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PDT-068 Parker Fluids Components- Design and Operation	29
PDT-070 PV/S Certification, Inspection and Deactivation	7
PDT-072 Gaseous Oxygen Handling	26
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PDT-076 Grayloc Fittings	7
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PDT-087 Use of Engineering Control Devices	63
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PDT-089 Pines Bender Operator Training	13
PDT-090 Training and Qualification Introduction	7
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Photographer/Cinematographer	3
POV Pulser Console	8
PRCS - Crimp Pull Testing	2
Precleaning	5
PROP-DOT HAZMAT EMPLOYEE TRAINING	15
Propellant Handling Course	9
Propulsion Quality Assurance Specialist	1
Pump Refurbishment - Lvl I Vacuum & Chemical	3
Pump Refurbishment - Lvl II Intensifiers	2
Quality Assurance - Pressure Systems Inspector	13
Quality Assurance - Pressure Systems Inspector Training	17
Quality Overview in Project Planning	2
Radiation Safety Training for the Electron Beam Welder	5
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Senior Test Conductor, 250 Area	6
Senior Test Conductor, Hazardous Fluids Test Area (HFTA)	9
Senior Test Conductor, High Pressure Test Area (HPTA)	27
Special Process Welding WPS W89 AWS-FW-02	2
Special Process Welding WPS W01	3
Special Process Welding WPS W02	2
Special Process Welding WPS W05	7
Special Process Welding WPS W05 - 5 Year Qualification	2
Special Process Welding WPS W06	2
Special Process Welding WPS W07	1
Special Process Welding WPS W09	2
Special Process Welding WPS W14	2
Special Process Welding WPS W23	1
Special Process Welding WPS W24	1
Special Process Welding WPS W29	2
Special Process Welding WPS W29-5 Year Qualification	2
Special Process Welding WPS W42	2
Special Process Welding WPS W52	2
Special Process Welding WPS W81	1
Special Process Welding WPS W82	1
Special Process Welding WPS W84	1
Special Process Welding WPS W86	1
Special Process Welding WPS W88 ASME GTAW CS 01	2
Special Process Welding WPS W92 AWS-PJP-01	2
Special Process/Flight - Crimping, Cable & Harnessing	17
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Special Process/Flight - Conformal Coating and Staking (Pott	4
Special Process/Flight - Soldering (NHB 5300)	32
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Special Process/WSTF Stnd.-Crimping	34
Special Process/WSTF Stnd.-Particle Counting	11
Special Process/WSTF Stnd.-Potting	22
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Special Projects Project Manager (PM)	4
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Test Conductor, Hazardous Fluids Test Area (HFTA)	44
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Test Conductor, Hydrogen Flow Control Valve (HFCV)	2
Test Conductor, Particle Impact Testing	7
Test Media Handling - Fuels	42
Test Media Handling - LOX/GOX	69
Test Media Handling - Oxidizer	47
TEST MEDIA HANDLING LH2/ GH2	35
TI990 Instrumentation Sys. Oper. - Lvl II	1
TI990 Instrumentation Sys. Oper. - Lvl III	1
VME Instrumentation Sys. Oper. - Lvl I	5
VME Instrumentation Sys. Oper. - Lvl II	27
VME Instrumentation Sys. Oper. - Lvl III	2
WSTF Material Review Board (MRB) - Orbiter Hardware	67
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PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

ATTACHMENT J-11 - PRESSURE VESSEL SYSTEMS - TOC

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1	Pressure Vessel Systems	J-11.1/1

System ID	Description	Status	Vessel	Oxygen Service	System Location	Last Recertification	Next Recertification
9177	DECONTAMINATION CART T-177	I	Y		, T-177	5/1/1997	1/5/2006
2144	TUBE SAMPLING TANK	I	Y		100-120	1/11/1955	
8094	UPWARD PROPAGATION RATE TEST SYSTEM	A	Y	Y	101	11/11/2004	11/2/2005
8076	MECHANICAL IMPACT TEST CHAMBERS	A	N	Y	104,107	6/2/2004	5/2/2005
8098	107 PNEUMATIC AND COMPONENT TEST	A	Y	Y	107	2/4/2005	1/2/2006
8099	108 FLAMMABILITY TEST	A	Y	Y	108	11/23/2004	12/2/2005
9264	AIT TEST SYSTEM	A	Y	Y	108	1/13/2005	2/2/2006
8101	110 HI-PRESS GOX FLOW TEST	A	Y	Y	110	11/11/2004	11/2/2005
8102	111 FRICTION RUBBING TEST	A	Y	Y	111	4/23/2004	2/2/2005
9179	COMPRESSOR, JOY, T-179	I	Y		113-GA, T-179	11/24/1986	
8078	GOX INDEX TEST SYSTEM	A	N	Y	116	8/21/2004	9/2/2005
8120	131 EMU ARC TEST SYSTEM	A	N	Y	131	6/1/2004	6/2/2005
9273	OMS PUMP CART	A	Y	N	200 - CTF, T-273	11/9/2004	12/1/2005
9274	OMS CATCH VESSEL CART	A	Y	N	200 - CTF, T-274	11/9/2004	12/1/2005
2307	Room 151 ISS test system	A	Y	N	200 room 151 (NHB)	7/13/2004	8/1/2005
2033S	SPARES CHEM LAB CYLINDERS SAMPLEGAS	I	Y		200- CHEM LAB HOKE		
9115	T-115 LN2 DEWAR SUPPLY, 4000 GAL	A	Y	N	200 EXT	4/23/2004	4/2/2005
2309	QCV HFE Flush Fixture	E	N	N	200 NHB		
2306	QCV Surge Pressure Panel	I	Y	N	200 NHB (CTF)	10/2/2002	10/1/2003
2310	CTF Flush Test Bench #3 (parker rm)	A	Y	N	200 NHB RM 152A	6/1/2005	
2308	Room 151 Oxygen System	I	Y	Y	200 NHB room 151	5/30/2003	6/1/2004
2311	CTF OMS-E Futurecraft Test Systems	A	N	N	200 OMS Clean Room		8/1/2005
2012	WATER VAPOR UNIT GN2 SUPPLY	E	N	N	200 RM 134 OP		
9806	Portable GN Panel, LABCON	I	N		200/800 AREA	9/19/1996	
2000	MICROGRAVITY COMBUSTION TEST RIG	I	Y		200/PORTABLE SYSTEM	6/30/1995	
2106	TOC CARBON ANALYZER SYST-	A	Y	N	200/TOC rm 117	6/23/2004	6/1/2005
2141	HEISE GAUGE CLEANING SYSTEM	A	Y	N	200-115	8/30/2004	9/1/2005
1001	Functional Test Console #1 change	A	N	N	200-116	4/2/2004	4/1/2005
1002	FUNCTIONAL TEST CONSOLE NO. 2	A	N	N	200-116	4/30/2004	5/1/2005
2046	FINNIGAN 5100 GAS CHROM./MASS SPEC.	E	Y		200-124	11/16/1987	
2014	PERKIN ELMER ATOMIC ABORB UNIT	E	N	N	200-128		
2024	DSC TEST SYSTEM	I	Y		200-128	1/1/1996	
2058	ARGON MANIFOLD SYSTEM	A	Y	N	200-128	9/7/2004	8/2/2005
2037	NITRIC OXIDE SAMPLE SPHERES	A	Y	N	200-136	7/6/2004	7/2/2005
2053	OXIDIZER IMMERSION TEST (OXIT)	E	N		200-136		
2155	SURFACE AREA ANALYZER SYSTEM	E	N		200-136	11/10/1987	
2008	GAS PERMEATION DELIVERY MANIFOLD	I	Y	N	200-136A	12/29/2003	
2029	INSTRUMENT PANEL ASSEMBLY	E	Y		200-136A	11/16/1987	
2128	GAS STANDARD MANIFOLD SYSTEM	A	Y	N	200-136A	2/4/2005	1/2/2006
2157	GAS LAB HIGH PRESSURE TABLE	E	N		200-136A	8/19/1994	
2073	MMH FUEL IMMERSION, TEST 15	E	Y		200-139	5/28/1993	
2152	AR CALORIMETER	I	N	N	200-140	1/27/1988	
2021	HP 5830 GAS CHROMATOGRAPH, RM 142	E	N	N	200-142	8/22/1988	
2028	INERT ATMOSPHERE SYSTEM	E	N		200-142		
2048	OI MODEL 700 TOC ANALYZER	E	N		200-143		
2052	DIFF. PRESS. IMMERSION TEST (DPIT)	E	N		200-143		
2067	AMMONIA IMMERSION TEST	I	Y	N	200-143	6/14/2000	
2147	PORTABLE EYEWASH TANKS (1 EA.)	I	Y		200-144	3/7/1988	
2038	315 LITER CONTAINER	E	Y		200-146	8/18/1988	
2039	OXYGEN DISTRIBUTION SYSTEM	E	N		200-CHEM LAB	12/17/1987	
2032S	HOKE-3 LITER OXIDIZER SPARES	I	Y		200-chem lab spares		
2031S	FUEL -HOKE CYLINDER-CHEM LAB SPARES	I	Y	N	200-CHEM LAB-CYL'S		
2001	CLEAN ROOM GN2 SUPPLY SYSTEM	E	N	N	200-CL RM	9/13/1988	
2006	FREON TRANSFER SYSTEM	I	N		200-CL RM	1/19/1987	
9116	TKR T-116	E	Y		200-CL RM, T-116	4/6/1988	
9117	DEIONIZED WATER TANKER, T-117	A	Y	N	200-CTF, T-117	2/27/2004	3/1/2005
2035	HAZARDOUS WASTE DRAINS GN2 SYSTEM	A	N	N	200-EVAP.TKS.	9/13/2004	7/1/2005
2145	BreathingAir-200 Decon Area	I	N	N	200-FCL Decon	11/21/2001	11/21/2002
2002	200 AREA FACILITY GN2 SYSTEM	A	N	N	200-GA	7/22/2004	7/1/2005
2009	FREON STORAGE TANK T-204	I	Y		200-GA		
9124	ALCOHOL TANKER - T-124	I	Y		200-GA, T-124	7/6/1989	
1005	INTENSIFIER TEST UNIT NO. 1 & 2	A	N	N	200-LABCON	3/10/2004	3/1/2005
1006	INTENSIFIER TEST UNIT NO. 2	I	N	N	200-LABCON	8/3/1994	
1008	HYDROSTATIC TEST STAND	A	N	N	200-LABCON	8/30/2004	8/30/2005
1009	ARGON FILLING STATION	I	N	N	200-LABCON	9/29/1987	
1010	HIGH PRESSURE TEST CONSOLE	I	N	N	200-LABCON	6/15/1992	
2162	BLDG.200-LABCON NITROGEN DISTR. SYS	A	N	N	200-LABCON	6/23/2004	6/1/2005
2163	SCAPE BACK PACKS	I	Y		200-LABCON	5/18/1990	
4530	SCAPE ROOM PRESSURE SYSTEMS	E	Y		200-LABCON	3/31/1988	
9181	T-181/INGERSOLL-RAND 250 CFM (WSTF)	E	Y		200-NHB; T-181		
2100	ICP Argon Manifold	I	N	N	200-RM 128	8/2/2002	8/2/2003
2151	D.O.T. PROOF TEST FACILITY	I	Y	N	200-SHB		
1012	HELIUM SUPPLY SYSTEM	I	Y	N	201	11/6/1989	
9270	T-270 POV FLOW TEST TRAILER	I	Y	N	201 AREA, T-270 TRL	11/21/2003	11/2/2004
2007	D.O.T. FACILITY CLEANING STAND	I	N		201 SHB		
1081	CAMERA CAN	E	Y	N	201-CRA		
1082	CAMERA CAN	E	Y	N	201-CRA		
1083	CAMERA CAN	E	Y		201-CRA		
1084	CAMERA CAN	E	Y	N	201-CRA		
1085	CAMERA CAN	E	Y	N	201-CRA		

1086	CAMERA CAN	E	Y	N	201-CRA		
1087	CAMERA CAN	E	Y	N	201-CRA		
1088	CAMERA CAN	E	Y	N	201-CRA		
1089	CAMERA CAN	E	Y	N	201-CRA		
1090	CAMERA CAN	E	Y	N	201-CRA		
1091	CAMERA CAN	E	Y	N	201-CRA		
1096	CAMERA CAN	E	Y	N	201-CRA		
1097	CAMERA CAN	E	Y	N	201-CRA	3/3/1987	
1098	CAMERA CAN	E	Y	N	201-CRA		
1011	FREON FLUSH CANNISTERS (3)	E	Y		201-FCL	1/27/1988	
2034	D.O.T. FREON SUPPLY/DIST. SYSTEM	I	N		201-S. HB		
2104	Microgravity Drop Rig Test System	I	Y	Y	201-SHB	5/29/2001	6/1/2002
9263	T-263 LN2 PORTABLE DEWARS	A	Y	N	203	12/30/2004	12/2/2005
2074	10K PSI CALIBRATION SYSTEM, HEISE	I	Y		203 BLDG RM 134	5/26/1994	
1051S	CAL LAB GN2 RUSKA SPARES	I			203 CAL GN2 RUSKA		
2160	COOKE , DTS VACUUM SYSTEM	E	Y	N	203 RM130		
2113	1kpsi Calibration System	A	N	N	203, RM 134	11/23/2004	12/1/2005
2015	SCANNING ELECTRON MICROSCOPE (SEM)	E	Y		203-123	10/18/1988	
2022	WATER LAB G.C. HYDROGEN SYSTEM	A	N	N	203-124	4/23/2004	4/2/2005
2069	HE SUPPLY TO HP 5890 G.C. WATER LAB	A	Y	N	203-124	11/11/2004	11/2/2005
2023	WATER LAB G.C. HELIUM SYSTEM	A	N	N	203-126	4/23/2004	4/2/2005
1060	HEISE GUAGE CALIBRATION CONSOLE	I	N		203-127	3/7/1988	
2020	FLUID INJECTION SYSTEM	I	N		203-131	1/9/1990	
2018	5790 GAS CHROMATOGRAPH, RM 146	E	Y		203-136A	11/12/1987	
2071	HP 5890A G.C. - GAS LAB	E	N		203-136A	3/11/1993	
2158	LOAD TEST SYSTEM	I	Y		203-138	1/22/1988	
2054	VACUUM CONDENSIBLE MAT'LS (VCM) SYS	E	N		203-141	8/18/1988	
1061	LN2 DEWAR-TEMPERATURE CAL. SYSTEM	A	Y	N	203-143	6/28/2004	6/2/2005
2026	TRACOR GAS CHROMATOGRAPH	I	Y		203-146	12/11/1987	
2041	PERKIN-ELMER SIG-2000 CHROMATOGRAPH	E	Y		203-146	3/7/1988	
2044	HP 5730 GAS CHROMATOGRAPH	E	Y		203-146	9/26/1988	
2047	5993 GAS CHROM/MASS SPECT.	E	Y		203-146	9/26/1988	
2049	PRESSURE/VACUUM TABLE	E	Y		203-146	9/26/1988	
2050	MDAL HP-5890A GAS CHROMATOGRAPH	E	Y		203-146		
2055	2-LTR SAMP OFFGASSING CHAMS-31 EACH	E	Y		203-146	12/17/1987	
2056	6.0 LITER SAMPLE CHAMBERS - 3 EACH	E	Y		203-146	12/17/1987	
2057	184 LITER SAMPLE OFFGASSING CHAMBER	E	Y		203-146	12/17/1987	
2060	24 LITER PRESSURE COOKERS - 3 EACH	E	Y		203-146	8/18/1988	
2061	39 LITER PRESSURE COOKERS - 2 EACH	E	Y		203-146	8/18/1988	
2062	14.7 LITER PRESSURE COOKERS-3 EACH	E	Y		203-146	8/18/1988	
2063	10 LITER PRESSURE COOKERS - 3 EACH	E	Y		203-146	8/18/1988	
2064	6.6 LITER PRESSURE COOKERS - 3 EA.	E	Y		203-146	8/18/1988	
2065	4.3 LT SAMPLE OFFGASSNG CHAMS-37 EA	E	Y		203-146	8/18/1988	
2066	360 LITER SAMPLE OFFGAS. CHAMBER	E	Y		203-146		
2070	MDAL H.P. 5890 GC	A	N	N	203-146	11/19/2004	11/2/2005
2072	HP 5890 G.C. (NAVY T.O.) - MAL	E	N		203-146	3/20/1993	
2142	MAL SAMP CHAMBS-6" 8" 12" STAINLESS	E	Y		203-146	3/7/1988	
2143	PERKIN-ELMER SIGMA 2000GC	E	Y		203-146		
2150	MDAL HYDROGEN DIST. SYSTEM	A	Y	N	203-146	11/11/2004	11/2/2005
1059S	CAL LAB SPARES 1k PSI KEITHLY	I			203-1K KEITHLY CAL		
1051	GN2/AIR RUSKA	A	N	N	203-CAL LAB	8/5/2004	8/1/2005
1052	COX GAS FLOW CALIBRATOR	A	N	N	203-CAL LAB	10/19/2004	11/1/2005
1054	RUSKA CALIBRATOR, OIL	E	N	N	203-CAL LAB	4/26/2001	
1055	WATER CALIBRATION SYSTEM	E	N	N	203-CAL LAB	11/29/2000	12/1/2001
1056	GN2 DELTA P CONSOLE	A	N	N	203-CAL LAB	12/9/2004	12/1/2005
1059	KEITHLEY RUSKA	A	N	N	203-CAL LAB	1/23/2004	4/1/2005
1058	GN2/OIL RUSKA	A	N	N	203-CAL LAB, RM 134	8/12/2004	8/1/2005
1052S	COX FLOW TEST SYSTEMS SPARES	I		N	203-cox flow test		
2011	ESSEX SPACE SIMULATION CHAMBER	I	Y	N	203-ENV LAB	8/29/2000	9/1/2001
2161	SELF HEATED CHAMBER	A	Y	N	203-ENV LAB	11/11/2004	11/2/2005
2011s	spares for essex chamber, 203 cryo	I		N	203-essex chamb lab		
2051	INPLACE PRESSURE CALIBRATION SYS.	I	N		203-GA	7/29/1993	
2040S	CHEM LAB-203 HYDROGEN SUPPLY SPARES	I	N	N	203-HYDROGEN SUPPLY		
2113S	CAL.-1K psi AutoSPARES	I	N	N	203-rm134-1Kpsi		
2076	MDAL-HP5890 GC/IRD/MSD#2	E	N	N	203-rm146	2/9/1955	
8048	HYDROGEN DEWAR AND RECHARGER SYSTEM	A	Y	N	250	8/21/2004	7/2/2005
8122	250 FACILITY GOX, GN2, NG	A	Y	Y	250	8/21/2004	2/2/2005
9144	T-144 H2 TRAILER (6000)	A	Y	N	250	6/3/2004	6/2/2005
8007	TITANIUM BEARING, GN2	I	N	N	250 AREA	11/14/1996	
8052	HYDROGEN FLOW TEST SYSTEM	I	Y	N	250 AREA LH2	11/7/2001	11/1/2002
9261	T-261 MOBILE HYDROGEN RECHARGER	I	Y		250 AREA, T-261 RCH	4/15/1997	
9275	GN2/HE HEATED GAS UNIT - PORTABLE	I	N	N	250 GA / DIASSEMBLED	4/13/1999	
8050	250 HELIUM SUPPLY	A	Y	N	250 HELIUM	7/23/2004	6/2/2005
8052S	250 SPARES LH FLOW TEST SYSTEM	I	N	N	250 -HYDROGEN FLOW S		
8051	LIQUID HYDROGEN RECIRCULATION PUMP	A	Y	N	250 LHRP	3/16/2004	3/2/2005
8122S	250 GOX , MEDIA SPARES MAINTENANCE	E	N		250- lox gox		
8121S	250 LOX / GOX SUPPLY SPARES	I	N	Y	250 LOX/GOX SPARES		
8121I	TG-218 250 Recharger	I	Y	Y	250- RECHARGER lox		
8121	250 AREA LOX/GOX STORAGE SYSTEM	A	Y	Y	250-GA	7/22/2004	6/2/2005
9106	HYDROGEN TUBE TRAILER, T-106	I	Y	Y	250GA, T-106	1/14/2003	
8050S	250 Helium system Spares	I	N	N	250-He-spares		
8048S	SPARES 250 Hydrogen Storage /Rch	I	N	N	250-LHE DEWAR RCH		
8001A	DOPPLER INSUIT-WALK-IN CHAMBER TEST	I	N		250-WALKIN		

8001S	WALK-IN CHAMBER HYDRAULICS	I	N	N	250-WALK-IN CHAM		
2101	MICRO-GRAVITY TEST SYSTEM #2	A	Y	Y	255	11/21/2003	4/2/2005
8207	270 LOW VELOCITY LAUNCHER	A	Y	N	270	2/1/2005	2/2/2006
8053	PULSE DETONATION TEST SYSTEM, PH II	I	Y		270 AREA	2/28/1995	
2059	McGILL DETONATION TUBE-270 AREA	I	Y		270-GA	12/20/1988	
2146	250 L LH2 PORTABLE DEWAR	I	Y	N	270-GA		
8027S	270 HORIZONTAL DENTONATION SPARES	I	N	N	270-HORIZ DETONATE		
2127	FLASH X-RAY GN2	A	Y	N	272	7/1/2004	6/2/2005
8023	.07 Cal. Experimental Range	I	N	N	272		
8033	GN2 TARGET PRESSURE, 1" LGG	I	Y	N	272	11/17/1995	
8060	HYDROSTATIC PUMP TEST CART / COPV	I	N	N	272	11/17/1994	
8061	272 BREATHING AIR SUPPLY	A	Y	N	272	4/23/2004	4/2/2005
9271	WASTE PUMP	I	Y		272 - WASTE PUMP	11/20/1995	
9802	GN2 FILL / VENT SYSTEM	I	N		272 ? HYPER	12/1/1998	11/1/1999
8008	272 Nitrogen Tank Assembly Testor	I	Y	N	272 AREA	9/15/2003	
8147	HYDRAZINE FILL SYSTEM	I	Y	N	272 AREA	7/19/1996	
2125	272 NITROGEN SUPPORT	I	N	N	272 GN2		
8018	HYPERVELOCITY 30/17 CAL GUN	A	Y	N	272, .17/.30	5/26/2004	5/2/2005
8021	.50 CALIBER GUN SYSTEM	A	Y	N	272, .50 CAL	12/30/2004	12/2/2005
8026	1" HYPER VELOCITY TEST SYSTEM	A	Y	N	272, 1" GUN	7/22/2004	4/2/2005
8208	272 AIR COMPRESSOR	I	Y	N	272,Comp. Air		
8017S	HYPER 0.17 & 0.07 CAL SPARES & MAIN	I			272?? WAS SHB		
8026S	272 HYPER 1" SUPPORT SPARE TRACKING	I	N		272-1" HYPERr		
8008S	SPARES NTA PROOF- REMOVED 2003	I	N	N	272-NTA PROOF		
9204	OXIDIZER ASPIRATOR, T-204	A	Y	N	300 - TS 328, T-204	5/3/2004	5/1/2005
3003	300 AREA HELIUM SUPPLY & DISTRIBUT.	A	Y	N	300 AREA	12/17/2004	1/1/2006
9301	Greenfield Helium Booster (s/n 275)	A	Y	N	300 Area (TS301)	6/22/2004	7/1/2005
3202	300 AREA A/C DAMPER VALVE SYSTEM	E	Y	N	300 BUNKERS	11/9/2004	12/1/2005
3201	300 AREA FIREX SYSTEM	E	Y		300 TEST AREA	3/1/1991	
3001	FUEL READY-STORAGE UNIT, 300 AREA	A	Y	N	300-GA	8/19/2004	9/1/2005
3002	OXIDIZER READY-STORAGE, 300 AREA	A	Y	N	300-GA	9/28/2004	10/1/2005
3005	NITROGEN SUPPLY & DIS SYS, 300 AREA	A	Y	N	300-GA	1/26/2005	2/1/2006
3006	BREATHING AIR DIST. SYS, 300 AREA	A	N	N	300-GA	11/4/2004	12/1/2005
3100	FUEL DUMP TANK, 300 AREA	A	Y	N	300-GA	8/19/2004	9/1/2005
3101	FUEL VENT SYSTEM, 300 AREA	A	Y	N	300-GA	10/19/2004	11/1/2005
3102	OXIDIZER DUMP TANK, 300 AREA	A	Y	N	300-GA	9/16/2004	10/1/2005
3103	OXIDIZER VENT SYSTEM, 300 AREA	A	Y	N	300-GA	10/19/2004	11/1/2005
9104	HELIUM TUBE TRAILER T-104	A	Y	N	300-GA, T-104	7/26/2004	9/1/2005
9109	HELIUM TUBE TRAIL,T-109 (3000 PSIG)	A	Y	N	300-GA, T-109	11/4/2004	12/1/2005
9160	HELIUM BOOSTER UNIT, T-160	I	N	N	300-GA, T-160 HE	11/23/2002	12/1/2003
3011	FUEL DISTRIBUTION SYSTEM, T/S 301	A	Y	N	300-TS301	4/8/2004	4/1/2005
3012	OXIDIZER DIST. SYSTEM, T/S 301	A	Y	N	300-TS301	4/5/2004	4/1/2005
3013	HELIUM DISTRIBUTION SYSTEM, T/S 301	A	N	N	300-TS301	4/8/2004	4/1/2005
3015	NITROGEN DISTRIBUTION SYS, T/S 301	A	Y	N	300-TS301	4/22/2004	4/1/2005
9202	T-202 FUEL ASPIRATOR	A	Y	N	300-TS301, T-202	2/25/2004	3/1/2005
9200	T-200 OXIDIZER ASPIRATOR	A	Y	N	300-TS301,T-200	3/2/2004	3/1/2005
3020	ALTITUDE SIMULATION CHAMBER T/S 302	I	Y		300-TS302	10/21/1994	
3022	FLUID DISTRIBUTION SYSTEM T/S 302	I	Y		300-TS302	8/27/1993	
3023	CATCH & WEIGH SYSTEM T/S 302	I	Y		300-TS302	8/27/1993	9/1/1998
3024	DUMP & VENT SYSTEM T/S 302	A	Y	N	300-TS302	8/19/2004	9/1/2005
3026	T/S 302 CELL INTERNAL FUEL SYSTEM	I	N		300-TS302	8/27/1993	9/1/1998
3502	300 STEAM - GENERATOR SYSTEM	A	Y	N	300-TS302	8/5/2004	8/1/2005
3503	300 STEAM - EXTERN EJECT SYS	A	Y	N	300-TS302	8/2/2004	8/1/2005
3501	300 STEAM - WATER TREATMENT SYSTEM	E	Y		300-TS302, 303	7/24/1996	1/10/1999
3021	HYDRAZINE CONDITIONING UNIT T/S 302	A	Y	N	300-TS302/303	11/10/2004	12/1/2005
3281	FUEL DISTRIBUTION SYSTEM, T/S 328	A	Y	N	300-TS328	4/27/2004	5/1/2005
3282	OXIDIZER DISTRIBUTION SYS, T/S 328	A	Y	N	300-TS328	5/11/2004	5/1/2005
3283	HELIUM DISTRIBUTION SYS, T/S 328	A	N	N	300-TS328	12/1/2004	12/1/2005
3285	NITROGEN DISTRIBUTION SYS.,T/S 328	A	N	N	300-TS328	12/1/2004	12/1/2005
9205	FUEL ASPIRATOR, T-205	A	Y	N	300-TS328, T-205	5/3/2004	5/1/2005
4036	TS 403 WATER SYSTEM	E	N		400 AREA	4/30/1990	
4061	TS 406, Fuel System	I	Y	N	400 area		
4062	TS 406, Oxidizer System	I	Y	N	400 area		
4401	WATER & OIL, 400 SASS	A	N	N	400 AREA	5/26/2004	5/1/2005
4402	VACUUM, 400 SASS	A	N	N	400 AREA	4/29/2004	5/1/2005
4403	STEAM, 400 SASS	A	N	N	400 AREA	5/11/2004	5/1/2005
4404	PROPANE, 400 SASS	A	Y	N	400 AREA	4/26/2004	5/1/2005
4405	DIESEL FUEL, 400 SASS	A	Y	N	400 AREA	5/3/2004	5/1/2005
4406	WATER CHEMICALS, 400 SASS	A	Y	N	400 AREA	5/11/2004	5/1/2005
4407	NITROGEN, 400 SASS	A	N	N	400 AREA	5/26/2004	5/1/2005
4510	LASS Low Pressure Air	I	Y		400 Area		
9232	NITROGEN RECHARGER TG-232	I	Y		400 LN AREA,TG-232	6/29/1999	
4601	(405) GN2 EJECTOR SYSTEM	I	N		400(IN.GAS PAD AREA)	6/14/1996	
9180	AIR COMPRESSOR, T-180	I	Y		400-460; T-180	11/17/1995	
4000	LN2 SERVICE SYSTEM, 400 AREA	A	Y	N	400-GA	4/26/2004	5/1/2005
4001	FUEL READY-STORAGE UNIT, 400 AREA	A	Y	N	400-GA	9/28/2004	10/1/2005
4002	OXIDIZER READY-STORAGE UNIT, 400	A	Y	N	400-GA	4/5/2004	4/1/2005
4003	HELIUM SUPPLY & DIST SYS, 400 AREA	A	Y	N	400-GA	11/4/2004	11/1/2005
4005	NITROGEN SUPPLY & DISTRIBUTION, 400	A	Y	N	400-GA	11/10/2004	12/1/2005
4006	BREATHING AIR DISTRIBUTION SYS, 400	A	Y	N	400-GA	12/2/2004	1/1/2006
4100	FUEL DUMP TANK, 400 AREA	A	Y	N	400-GA	7/26/2004	8/1/2005
4101	FUEL VENT SYSTEM, 400 AREA	A	Y	N	400-GA	7/26/2004	8/1/2005
4102	OXIDIZER DUMP TANK, 400 AREA	A	Y	N	400-GA	1/25/2005	3/1/2006

4103	OXIDIZER VENT SYSTEM, 400 AREA	A	Y	N	400-GA	1/25/2005	2/1/2006
4201	FIREX SYSTEM, 400 AREA	E	N		400-GA		
9103	HELIUM TUBE TRAILER, T-103	I	Y		400-GA, T-103	7/21/1993	8/1/1998
9105	HELIUM TUBE TRLR T-105 (2450 PSIG)	I	Y		400-GA, T-105	7/23/1993	
9114	GN2 RECHARGER, T-114	I	N		400-GA, T-114		
9118	5000 GALLON LN2 DEWAR, T-118	I	Y		400-GA, T-118	2/20/1998	3/1/1999
9127	1000 GALLON LN2 DEWAR, T-127	A	Y	N	400-GA, T-127	2/25/2004	3/1/2005
9128	300 GALLON LN2 DEWAR, T-128	A	Y	N	400-GA, T-128	1/25/2005	3/1/2006
9129	300 GALLON LN2 DEWAR T-129	A	Y	N	400-GA, T-129	7/26/2004	8/1/2005
9131	HELIUM BOOSTER UNIT, T-131	I	Y		400-GA, T-131	11/21/1997	
9156	150 GALLON LN2 DEWAR, T-156	I	Y		400-GA, T-156 LN2	1/29/1999	
9161	GN2 CART T-161	I	Y		400-GA, T-161 GN2		
9162	625 GALLON FUEL TANKER T-162	A	Y	N	400-GA, T-162 FUEL	6/17/2004	7/1/2005
9163	625 GALLON OXIDIZER TANKER T-163	A	Y	N	400-GA, T-163	6/17/2004	7/1/2005
9164	GN2 PURGE HEATER CART T-164	I	Y		400-GA, T-164	9/25/1997	
9165	GN2 PURGE HEATER CART T-165	A	Y	N	400-GA, T-165 HTR	11/19/2004	12/1/2005
9168	STEAM UNIT T-168	A	N	N	400-GA, T-168 STEAM	5/18/2004	6/1/2005
9188	MOL-SIEVE OXID. CLEANER UNIT T-188	I	N		400-GA, T-188	3/31/1997	1/4/2006
9231	NITROGEN RECHARGER TG-231	I	Y		400-GA, TG 231		
9230	NITROGEN RECHARGER TG-230	I	Y		400-GA, TG-230	10/29/1997	
9152	HELIUM BOOSTER UNIT, T-152	A	N	N	400-GA; T-152	11/10/2004	11/1/2005
9167	STEAM UNIT T-167	A	N	N	400-GA; T-167 STEAM	4/6/2004	5/1/2005
9157	150 GALLON LN2 DEWAR, T-157	I	Y		400-GAT-157 LN2		
4501	NITROGEN, 400 AREA STEAM GEN SYSTEM	A	Y	N	400-STEAM	6/28/2004	7/1/2005
4502	ALCOHOL, 400 AREA STEAM GEN SYSTEM	A	Y	N	400-STEAM	6/28/2004	7/1/2005
4503	LIQUID OXYGEN, 400 STEAM GEN SYS	A	Y	Y	400-STEAM	6/30/2004	7/1/2005
4505	STEAM PIPING, 400 STEAM GEN SYSTEM	A	N	N	400-STEAM	6/28/2004	7/1/2005
4506	WATER SUPPLY, 400 STEAM GEN SYSTEM	A	N	N	400-STEAM	9/29/2004	10/1/2005
4507	HYDRAULICS, 400 AREA STEAM GEN SYS	A	Y	N	400-STEAM	10/28/2004	11/1/2005
4508	DIESEL FUEL, 400 AREA STEAM GEN SYS	A	Y	N	400-STEAM	9/29/2004	10/1/2005
4509	VACUUM, 400 AREA STEAM GEN SYSTEM	E	N		400-STEAM	9/25/1995	
4051	NITROGEN DISTRIBUTION SYS., T/S 405	A	Y	N	400-TS 405	12/9/2004	1/1/2006
4052	NITROGEN/FREON, TEST STAND 405	I	N		400-TS 405		
4053	HYDRAULICS, TEST STAND 405	I	Y		400-TS 405		
4010	ALTITUDE TEST CHAMBER, T/S 401	A	Y	N	400-TS401	8/20/2004	9/1/2005
4011	FUEL DISTRIBUTION SYSTEM, T/S/ 401	A	Y	N	400-TS401	9/29/2004	9/1/2005
4012	OXIDIZER DISTRIBUTION SYS., T/S 401	A	Y	N	400-TS401	3/16/2004	3/1/2005
4013	HELIUM DISTRIBUTION SYSTEM, T/S 401	A	N	N	400-TS401	9/30/2004	9/1/2005
4014	WATER DISTRIBUTION, T/S 401	E	N		400-TS401		
4015	NITROGEN DISTRIBUTION SYS., T/S 401	A	N	N	400-TS401	9/30/2004	9/1/2005
4520	MINI HEAT EXCHANGER, T/S 401	I	Y		400-TS401	9/27/1987	
9201	T-201 OXIDIZER ASPIRATOR	A	Y	N	400-TS401, T-201	9/30/2004	10/1/2005
9203	T-203 FUEL ASPIRATOR	A	Y	N	400-TS401, T-203	9/29/2004	10/1/2005
4021	FUEL DISTRIBUTION SYSTEM, T/S 402	I	Y		400-TS402	8/24/1993	9/1/1998
4022	OXIDIZER DISTRIBUTION SYS., T/S 402	I	N		400-TS402	8/24/1993	9/1/1998
4023	3000 PSI HELIUM DIST. SYS. TS 402	I	Y		400-TS402		1/11/2005
4024	6000 PSI HELIUM DIST. SYS. TS 402	I	Y		400-TS402		1/11/2005
4025	NITROGEN DISTRIBUTION SYS., T/S 402	I	Y		400-TS402	6/25/1992	
4030	ALTITUDE TEST CHAMBER, T/S 403	A	Y	N	400-TS403	4/27/2004	5/1/2005
4031	FUEL DISTRIBUTION SYSTEM, T/S 403	A	Y	N	400-TS403	5/28/2004	6/1/2005
4032	OXIDIZER DISTRIBUTION SYS., T/S 403	A	Y	N	400-TS403	6/17/2004	6/1/2005
4033	HELIUM DISTRIBUTION SYSTEM, T/S 403	A	N	N	400-TS403	5/10/2004	5/1/2005
4035	NITROGEN DISTRIBUTION SYS., T/S 403	A	Y	N	400-TS403	5/11/2004	5/1/2005
9220	T-220 OXIDIZER ASPIRATOR	A	Y	N	400-TS403 T-220	5/4/2004	5/1/2005
9189	ACCUMULATOR, FUEL T-189	I	Y		400-TS403, T-189	1/5/1994	2/1/1999
9190	ACCUMULATOR, OXIDIZER T-190	I	Y		400-TS403, T-190	1/5/1994	2/1/1999
9221	T-221 FUEL ASPIRATOR	A	Y	N	400-TS403, T-221	5/12/2004	6/1/2005
4050	ALTITUDE TEST CHAMBER, T/S 405	A	Y	N	400-TS405	11/19/2004	1/1/2006
5204	500 AREA - AQUEOUS FUEL WASTE	A	Y	N	500 AREA	8/1/2004	8/1/2005
9102	H2 TUBE TRAILER T-102 (6000 PSI)	A	Y	N	500 Area	1/31/1999	2/1/2005
9235	T-235 GN TUBE BANK, 2450 PSIG	I	Y		500 AREA,T-235	9/30/1986	
5004	Backup Breathing Air Compressor-Rix	A	N	N	500 cryo area	1/27/2005	2/1/2006
5005	BREATHING AIR INTENSIFIER	A	Y	Y	500 CRYO AREA	1/13/2005	3/1/2006
5000	500 AREA LN2/GN2 SUPPLY SYSTEM	A	Y	N	500-CRYO AREA	8/2/2004	8/1/2005
5006	BREATHING AIR SYSTEM(SITE)-500 AREA	A	Y	N	500-CRYO AREA	7/27/2004	8/1/2005
5007	LN2/LOX SYSTEM - 500 AREA	I	Y		500-CRYO AREA		
5205	CHLORINE SYSTEM - FUEL TREATMENT	I	Y		500-FUEL TREAT AREA	4/12/1996	
5206	SODIUM HYDROXIDE SYSTEM-FUEL TREAT	I	Y		500-FUEL TREAT AREA	11/27/1996	
5001	LIQUID PROPELLANT STORAGE-500 AREA	I	Y		500-PROP AREA		
6001	DOMESTIC WATER CHLORINATION SYSTEM	A	Y	N	600 AREA	7/27/2004	7/1/2005
6500	PLUME FRONT GRND WATER REMED SYS	I	N		600 EPA WELL AREA		
7010	700 AREA INERT GAS SUPPLY	I	Y		700 AREA	6/12/2000	7/1/2001
7011	INERT GAS SUPPLY, LH2 DEWAR	I	Y		700 AREA	2/16/1996	
7012	HEBF - GAS SUPPLY	I	Y		700 AREA		
2140	LIQUID HYDROGEN STORAGE SYSTEM-240	I	Y	N	700 AREA, LH2 PAD	8/12/1997	
8143	GASEOUS HELIUM PURGE SYSTEM	I	Y	N	700 AREA, LH2 PAD	8/26/1996	
7010S	700 Area Gas Spares Support	I	N		700- pop supplies		
8013	800 GN2 SUPPLY, (HPJ,HFF,CSA)	A	Y	N	800	12/17/2004	12/2/2005
9171	T-171 CRYOGENIC DEWAR (500 GALLON)	I	Y	Y	800 - GA, T-171 CRYO	10/17/1990	
8110	CELL 113 -SPECIAL HOSE TEST	I	Y	Y	800- 113	6/1/1998	
8093S	HPTA RM 116- PROPAGATION SPARES	I	N	Y	800- 116-PROP		
8070	MISC. PRESSURE CONTAINERS	E	Y	N	800 AREA	2/17/1988	
8087	MIX GAS STORAGE SYSTEM	I	Y	Y	800 AREA	3/8/2002	

8006	RAPID COMPRESSION (WATER) TEST SYS.	I	Y	N	800 AREA - CELL 105	3/4/1991	
8041	MITS TEST - LOX / GOX	I	Y	Y	800 AREA, CELL 105	11/14/2003	10/2/2004
8043	INSTRUMENTED MIT SYSTEM	E	N	N	800 AREA, Cell 105	5/5/2000	
8114	LASER COMBUSTION TEST	I	Y	Y	800 AREA, CELL 834	12/29/2003	12/2/2004
8056	Helium Supply	I	N	N	800 AREA, CELL 835	6/27/2000	7/1/2001
8038	CELL 838. FUEL- 5-WAY MANIFOLD TEST	I	Y	N	800 AREA, CELL 838	3/12/2003	3/2/2004
8085	FUEL REACTION TEST SYSTEM	I	Y	N	800 AREA, CELL 861	1/27/1999	1/2/2000
8015	HFTA DECON SYSTEM	E	N	N	800 AREA, HFTA		
9265	OXIDIZER TANKER - 150 GAL. 150 PSIG	I	Y		800 AREA, T-265 OX	10/24/1993	
9266	FUEL (MMH) TANKER, 150 GAL. 300 PSI	I	Y		800 AREA, T-266 MMH	11/24/1993	
8034	FRICTION RUBBING TEST SYSTEM, C-830	I	N	Y	800 AREA,CELL 830	10/9/2001	
8118X	Cell 841-Immersion Old	I	Y	N	800- C-841 Fuel		
8094S	HPTA CELL 101 PROP SPARES, MAINT.	I	N	Y	800 CELL 101 PROP		
8009	VACCO VALVE CRACK & RESEAT TEST	I	N	N	800 Cell 113- Leak		
8124S	Cell 113 Spares Arpcs support	I	N	Y	800 CELL 113 SRPCS		
8067S	ORCA-TEST SPARES CELL 113	I	N	Y	800- CELL 113/130		
8035C	835 CELL PYRO TEST	I	Y	N	800- CELL 835 PYRO		
8029	CYLINDERS (K-BOTTLES) WSTF OWNED	A	Y	Y	800 GA	9/7/2004	9/2/2005
9173	T-173 GOX TUBE TRAILER (10000)	A	Y	Y	800 GA	4/23/2004	4/2/2005
9267	GN2 PWRD WASTE PUMP SYS #2	A	Y	N	800 GA	12/17/2004	1/2/2006
8882	TFS-MAINTENANCE - jas	I			800- GA		
8013S	800-GN2 GAS SUPPLIY SPARES	I	N	N	800 GN2 SUPPLY		
8012	800 GOX DISTRIBUTION SYSTEM	A	Y	Y	800 GOX	12/17/2004	12/2/2005
8011	LOX DEWAR & RECHARGER SYSTEM	A	Y	Y	800 GOX PAD	11/11/2004	10/2/2005
8028	K-BOTTLE SYSTEM, HPTA	A	Y	Y	800 GOX PAD	1/13/2005	2/2/2006
8057	IPOV OXID. LIFE CYCLE TEST SYSTEM	I	Y	N	800 HFTA, CELL 831	3/19/2003	
8058	DAV/POV VALVE TEST SYSTEM	I	Y	N	800 HFTA, CELL 831	10/29/1998	11/1/1999
8063	APU HYDRAZINE Leak detection	I	Y	N	800 HFTA, Cell 861	8/2/2002	
8064	CELL 861-VACUUM SYSTEM	E	N	N	800 HFTA, Cell 861		
8119S	HFTA- LEAK CHECK APPARATUS SPARES	I	N	N	800 HFTA-PORTLK CK		
9130	T-130 300 GALLON MOBILE LN2 DEWAR	A	Y	N	800 HPTA	6/10/2004	5/2/2005
9151	T-151 150 GALLON MOBILE LOX DEWAR	A	Y	Y	800 HPTA	5/26/2004	5/2/2005
9246	T-246 500 GALLON LOX DEWAR	A	Y	Y	800 HPTA	5/14/2004	6/2/2005
9807	PORTABLE LEAK CHECK APPARATUS	A	Y	N	800 HPTA	9/7/2004	9/2/2005
9808	IPOV VIBRATION WATER TEST PORTABLE	A	Y	N	800 IPOV	4/29/2004	5/2/2005
9285	INTENSIFIER CART INERT GAS	A	Y	N	800 PORTABLE	7/6/2004	7/2/2005
8020S	PC BOARD IGNIT. SPARES RM 116	I			800- RM 116 PC BOARD		
8067	CELL 113 - ORCA GOX TEST SYSTEM	I	N	Y	800 TEST CELL 113	4/2/2002	3/1/2003
8107S	800-HFTA-MMH DIST. SPARES MAINT.	I			800, HFTA-MMH		
8019S	CONE CALORIMETER SPARES MAINT,	I			800, HPTA CONE CAL.		
8016	PARR CALORIMETER	A	Y	Y	800, ROOM 116	12/30/2004	1/2/2006
8019	CONE CALORIMETER GAS SUPPLY	A	Y	Y	800, ROOM 119	9/7/2004	7/2/2005
9113	2000 GALLON LOX DEWAR T-113	I	Y	Y	800/250; T-113-TK101	9/4/2002	
8014	GOX STORAGE CYLINDERS 800/CSA PAD	I	Y	Y	800/CSA PAD	8/6/2003	
8099S	Cell 108 Spares 800 Bldg	I			800; HPTA cell 108		
8095	MECH. IMPACT TEST SYSTEM, LOX C-102	E	N	Y	800-102	6/26/1989	
8096	MECH. IMPACT TEST SYS, GOX C-104	A	Y	Y	800-104	6/2/2004	5/2/2005
8076S	MITS - PRESS. SPARES/ HISTORY SATA	I	Y	Y	800-104 MITS SPARES		
8075	MECHANICAL IMPACT COUNTERLOAD DOMES	E	N		800-104,107	4/18/1988	
8124	ARPCS TEST FACILITY SYSTEM - C-113	I	N	Y	800-113	3/8/2002	
8091	FLASH & FIRE TEST SYSTEM/CHAMBERS	I	Y	Y	800-116	10/11/1996	
8036	AIR / GOX SAMPLE CONDITIONING SYST.	I	Y	Y	800-116 w/LOI		
8083	CELL 831 - FACILITY NITROGEN	I	N		800-831	8/25/1993	
8032	N2H4 ADIABATIC COMPRESSION TEST SYS	I	Y	N	800-839	2/16/1994	
8047S	Maintenance / SPARE APU Tank TEST	I			800-843 APU		
8044	HYPERVELOCITY TEST SYSTEM, CELL 844	I	Y	N	800-844	6/1/1993	
8096S	Cell 108-800 Spares	I			800-Cell 104		
8043C	800-Cell 105 Gox MITS	I			800-Cell 105 gox		
8098S	SPRES CELL 107	I			800-CELL 107 SPARES		
8034S	HFTA- SPARES CELL 830 FRICTION	I	N	Y	800-CELL 830 FRT		
8132S	800-cell 832 spares	I			800-Cell 832		
8030R	RAPID COMPRESSION TEST-	I	Y	N	800-cell 839		
8209	Low Velocity Detonation System	I	Y	N	800-Cell 839	12/17/2004	12/2/2005
8118S	Cell 841 Spares -Fuel Immersion	I	N	N	800-Cell 841 spares		
8203	EOG Test System Cell 860	I	Y	Y	800-Cell 860 Area	4/1/2003	
9108	GN2 TUBE TRAILER, T-108 (2200 PSIG)	I	Y		800-GA, T-108	9/29/1993	
9111	6000 GALLON DEWAR, T-111	I	Y	Y	800-GA, T-111		
8011S	800 GN2 SPARES MAINT ITEMS	I			800-GN2 MAINT		
8112S	800-Helium Storage / Supply Spares	I			800-HELIUM SUPPLY		
8108	N2H4 FUEL DISTRIBUTION SYS - HFTA	I	Y	N	800-HFTA	11/20/2001	
8109	N2O4 OXIDIZER DISTRIBUTION SYS-HFTA	I	Y	N	800-HFTA	1/31/2002	
8889	Hazardous Fluid Support 800 Area	I			800-HFTA maint.		
8101S	800- Cell 110 spares	I		Y	800-HFTA; C-101		
8040S	800 -CELL 840 SPARES /MAINT CONFIG'	I			800-hfta-c-840		
8108S	N2H4 FUEL S800 HFTA DIST SPARES	I			800-HFTA-FUEL N2H4		
8109S	OXIDIZER -800 AREA HFTA SPARES	I			800-HFTA-OXIDIZER		
8069	HPTA COMPRESSED AIR SYSTEM	E	N	N	800-HPTA		
8124A	Cell 113 ARPCS-SUPPLY	I	Y	Y	800-HPTA-C-113		
8090S	800 MIXED GAS SPARE	I	N	Y	800-MIXED GAS TFA		
8016S	800Rm116 Parr Calor. Spares	I			800-rm116 Parr		
8883	Std Test Spares & Maintenace Items	I	N	N	800-STS		
8068	AIR COMPRESSOR - 801 bldg	E	Y	N	802 AREA	10/7/2004	10/1/2006
8003	GASEOUS NITROGEN SUPPLY FOR 803 BLD	A	N	N	803	11/11/2004	11/2/2005

8003S	803 BLDG SPARES MAINT GN2 ETC	I	N	N	803- GN2		
8132	832 PROMOTED IGNITION TEST	A	Y	Y	832	2/1/2005	2/2/2006
8113	833 N204 IMMERSION TEST	A	Y	N	833	3/27/2004	3/2/2005
8045	OXIDIZER MANIFOLD 5 TEST	A	Y	N	837	2/4/2005	2/2/2006
8030	839 INERT GAS SUPPLY	A	N	N	839	12/17/2004	12/2/2005
8210	839 ADIABATIC COMPRESSION TEST	A	Y	N	839	8/12/2004	9/2/2005
8040	INERT GAS SUPPLY GLOVE BOX	A	N	N	840	8/4/2004	8/2/2005
8118	841 FUEL IMMERSION TEST	A	Y	N	841	7/1/2004	7/2/2005
8047	APU TANK TEST SYSTEM	A	Y	N	843	1/13/2005	2/2/2007
8046	843 HELIUM LEAK CHECK PANEL	A	N	N	843 HELIUM	4/2/2003	4/2/2005
8049	844 IAPU TEST-FUEL	A	Y	N	844	7/22/2004	6/2/2005
9268	T-268 FUEL ASPIRATOR SYSTEM	A	Y	N	844	5/26/2004	5/2/2005
8202	860 HYDRAULIC PUMP /COPV PROOF	A	Y	N	860 COPV	6/11/2004	7/2/2005
8200	860 INERT GAS SUPPLIES	A	N	N	860 INERT GAS	4/29/2004	4/2/2005
8201	861 INERT GAS SUPPLY	A	N	N	861	4/29/2004	4/2/2005
9264S	SPARES AIT TEST CELL 108	I	N	Y	AIT HPTA C-108 SPARE		
2305	AC MTR VLVE CLEAN RM SYSTEMS	A	Y	N	B 200, RM 152B, CTF	8/3/2004	8/1/2005
2301	CTF GAS CHECKOUT PANEL	I	N		B. 200, RM. 152	11/4/1994	
2300	COMPONENT TEST FACILITY	A	Y	N	B. 200, RM. 163	10/19/2004	10/1/2005
2068	LOW PRESSURE GN2 FOR CHAMBER LAB	E	N		BLD 203, RM 131	11/19/1993	
9001	Vendor He tube trailer sample panel	A	N	N	Bldg 150,Truck Scale	10/21/2004	12/1/2005
2164	Nonmetals Fuel Immersion Tester	E	N		BLDG 200, ROOM 143		
2165	H2/O2 BURNER	I	N		BLDG 202/ROOM 134	8/17/1992	
2075	5890 GC/IRD/MSD SYSTEM	E	N	N	BLDG 203 - ROOM 146		
2112	GN2 (150psi), Physical Stds lab	I	N	N	BLDG 203, RM 145	9/28/2000	10/1/2001
2004	WEBBER CHAMBER GN2 SUPPLY	E	N		BLDG 203, ROOM 130		
2131	WEBBER CHAMBER SYSTEM #1	E	N	N	BLDG 203, ROOM 130	5/24/1996	
2132	WEBBER CHAMBER SYSTEM #2	E	N	N	BLDG 203, ROOM 130	5/24/1996	
2134	WEBBER CHAMBER SYSTEM #4	E	N	N	BLDG 203, ROOM 130	5/24/1996	
2111	Water Spray Boiler Test System	I	Y	N	Bldg 203.RM130 Essex	6/10/2004	6/2/2005
8055	ARC FURNACE SUPPLY	I	Y	N	BLDG 255	6/14/1996	
8022	0.17 Cal. Light Gas Gun	A	Y	N	BLDG 272- .17 Cal		3/2/2006
3032	APU HYDRAULIC SYSTEM	A	Y	N	BLDG 303A	4/5/2004	4/1/2005
3232	BLDG 323 OXIDIZER SYSTEM, 300 AREA	I	Y		BLDG 323		
3233	BLDG. 323 GN2 SYSTEM, 300 AREA	I	N		BLDG 323	6/21/1990	
8020	"BLACK BOX" TEST SYSTEM	I	N	Y	BLDG 800, ROOM 116	10/11/1998	
9809	CAJON ORBITAL WELDER GAS SUPPLY	I	N	N	BLDG 802		
2303	OMS-E TEST SYSTEMS	A	Y	N	BLDG. 200, RM 163	10/31/2004	11/1/2005
2304	COMPONENT DECONTAMINATION LAB.	A	N	N	BLDG. 200, RM 164	9/16/2004	10/1/2005
3234	AIR HALF COUPLING TEST SYSTEM	I	Y		BLDG. 323, OUTSIDE	2/11/1999	1/1/2010
2027	O-RING OXYGEN AGING CALORIMETER	I	Y	Y	BLDG.200 RM. 128	9/1/1999	
8001	CONFIGURATION FLAMMABILITY CHAMBER	I	Y	Y	BUILDING 250	5/28/1998	5/1/1999
8027	HORIZONTAL DETONATION TUBE	I	Y	N	BUILDING 270	2/9/1998	
8031	SPACE STATION RAPID COMPRESSION	I	Y		BUILDING 270	3/23/1993	
4161	Building 416 Helium System	I	N	N	Building 416		
4162	Building 416 GN2 System	I	N	N	Building 416		
8004	BUILDING 803 COMPRESSED AIR, 150PSI	E	Y	N	BUILDING 803		
8124C	CELL 113, ARPCS-CONTROL PANEL	I	Y	Y	C-113-ARPCS-CONTROL	4/29/2004	4/2/2005
9211	T-211 ACID NEUTRALIZATION CART	I	N		CART, T-211		
8041G	Cell 105; GOX MITS	I		Y	CELL 105 mits TEST		
8041S	MITS-CELL 105 TEST SPARES / MAINT.	I		Y	CELL 105 MIT LOX/GAS		
8124B	CELL 113-ARCPS-EOC SYSTEM	I	Y	Y	CELL 113 ARPCS-EOC		
8124D	Cell 113-800-special	I			cell 113-800 spcl		
8035	PRCS FUEL VALVE EXTRUSION-C-835	I	Y	N	CELL 835, 800 HFTA	7/8/2003	5/2/2004
8042	AMMONIA TEST SYSTEM CELL 841	I	Y	N	CELL 841- AMMONIA	1/14/2003	11/2/2003
8049S	Cell 844 -SPARES IAPU TEST	I	N	N	CELL 844 SPARES IAPU		
2025	LIQUID NITROGEN DEWARS - 11 EACH	A	Y	N	CHEM LAB	8/21/2004	9/2/2005
2031	HOKE SAMPLE BOTTLES-FUEL	A	Y	N	CHEM LAB	12/1/2004	11/2/2005
2032	HOKE SAMPLE BOTTLES-OXIDIZER	A	Y	N	CHEM LAB	12/1/2004	11/2/2005
2033	GAS SAMPLE BOTTLES	A	Y	N	CHEM LAB	12/2/2004	11/2/2005
2036	COSMODYNE CRYOGENIC SAMP CONTAINERS	A	Y	N	CHEM LAB	11/13/2004	11/2/2005
2040	HYDROGEN DISTRIBUTION SYSTEM	A	N	N	CHEM LAB	11/11/2004	10/2/2005
8887	Chem Lab Maintenance & Spares	I	N	N	Chem Lab spares,		
9290	200 AREA ISS PBA TEST PANEL	I	N	Y	CTF	3/7/2003	3/1/2004
9524	500 psi Nitrogen Supply #1	A	N	N	EPA	8/30/2004	9/28/2005
8999	EPA - Hydrogen Storage System	I	Y	N	EPA-Ann Arbor, MI		
5201	BREATHING AIR SYS, FUEL TREAT AREA	A	N	N	FUEL TREAT AREA	5/17/2004	5/1/2005
5202	GASEOUS NITROGEN, FUEL TREAT AREA	A	N	N	FUEL TREAT AREA 500	5/4/2005	5/1/2005
8062	HFTA FUEL DRAINS AND LEAK PANEL	A	N	N	HFTA	2/4/2005	2/2/2006
8084	FACILITY BREATHING AIR SYSTEM-HFTA	A	N	N	HFTA	3/7/2004	3/2/2005
8107	MMH FUEL DISTRIBUTION SYSTEM	A	Y	N	HFTA	11/11/2004	11/2/2005
8119	CHECK VALVE LEAK CHECK APPARATUS	A	Y	N	HFTA	3/7/2004	4/2/2005
8131	OXID-PROPANE / DRAIN BURNER SYS	A	Y	N	HFTA	11/11/2004	10/2/2005
8138	4-BOLT IMMERSION TEST CHAMBER	A	Y	N	HFTA	11/11/2004	11/2/2005
8131S	SPARES FOR OXID. BURNER DRAIN SYS	I			HFTA- OXID DRAIN		
8005	DIRECT ACTING VALVE TEST SYSTEM	I	Y	N	HFTA, CELL 835	6/28/1991	
8059	HFA-FIREX SYTEM 800	E	N	N	HFTA-FIREX		
8112	HFTA HELIUM DIST. SYSTEM	A	Y	N	HFTA-HELIUM	11/11/2004	10/2/2005
8108I	HFTA hydrazine Storage Unit	I			HFTA-HYDRA STORAGE		
9807S	Spares for 9807 leak test unit 800	I		N	HFT-support CELL 111		
8043S	Spares Cell 105 MITS HPTA	I	N	Y	HPTA CELL 105 MITS		
9272	KSC MOLE SIEVE (PMN K61-4190)	I	Y		KSC- MOLE SIEVE		
9282	KSC MOLE SIEVE (PMN K61-4190-01)	I	Y		KSC, T-282 MOLE SIEV		

8884	Spares & maint. Tracking 250 area	I			Labs 250 spare/maint		
9805	PORTABLE GN2 SUPPLY	I	Y		LABS AREA	3/16/1995	
2000S	Spares Microgravity unit 1	I			Microgravity unit 1		
8090	02/N2 MIXING SYSTEM	A	Y	Y	MIX GAS	5/26/2004	5/2/2005
9176	OXIDIZER MOL-SIEVE COND. UNIT T-176	A	Y	N	Mobile	6/17/2004	7/1/2005
9300	Surge Supressor Pressurization SCU	A	N	N	Mobile	12/17/2004	2/1/2006
9302	Greenfield Helium Booster (s/n 292)	I	Y	N	Mobile		
9303	Greenfield Helium Booster (s/n 293)	A	Y	N	Mobile		4/1/2005
9304	Bubble Point Oxidizer GSE	I	Y	N	Mobile		
9305	Bubble Point Fuel GSE	I	Y	N	Mobile		
9902	Fuel Portable Propellant System	A	Y	N	Mobile	8/19/2004	8/1/2005
9283	HELIUM TUBE BANK	I	Y		MOBILE (900) T-283		
9293	T-293 X-34 Booster Intensifier Cart	I		N	Mobile Equipment-400		
9294	T-294 X-34 Inert Gas Press. SCU	A	N	N	Mobile Equipment-400	6/28/2004	7/1/2005
9284	HELIUM TUBE BANK	I	Y		MOBILE(900) T-284		
9900	EAPU-ESTA Palletized Hydraulic Unit	I	N	N	Mobile-300-JSC/ESTA		
2312	NHB Breathing Air System	I	N	N	North Highbay		9/1/2005
9107	GOX TUBE TRAILER, T-107 (6000 PSIG)	I	Y	N	OFF SITE PURDUE	1/25/1999	1/1/2005
4055	TS 405 HELIUM SYSTEM	A	N	N	OUTSIDE TS 405	11/9/2004	1/1/2006
4056	TS 405 FUEL SYSTEM	A	Y	N	OUTSIDE TS 405	12/17/2004	1/1/2006
4057	TS 405 OXIDIZER SYSTEM	A	Y	N	OUTSIDE TS 405	12/17/2004	1/1/2006
9295	Mobile Helium Booster Unit T-295	I	N	N	PORT, T-295		
2166	ADIBATIC COMPRESSION DEMONSTRATOR	I	Y	N	PORTABLE	12/7/2001	
9254	T-254 BREATHING AIR TRAILER	A	Y	N	PORTABLE	11/11/2004	10/2/2005
9270S	PV/S 9270 RPOV-STANDARD-INACTIVE	I	Y	N	Portable- 800		
9262	GN2 PWRD. WASTE PUMP SYS #1	A	N	N	PORTABLE- T-262	10/20/2004	10/2/2006
9286	TEST STAND 901	I	Y		PORTABLE, T-286		
9287	Fuel Bi-prop Purge Test System	I	N		Propulsion		
9288	Ox Bi-prop Purge Test System	I	N		Propulsion		
9289	Inert Bi-prop Purge Test System	I	N		Propulsion		
2302	QUAD CHECK VALVE TEST SYSTEM	A	N	N	QCV, RM. 152	1/26/2005	2/1/2006
8093	UPWARD PROPAGATION RATE TEST SYSTEM	A	Y	Y	RM 116	11/11/2004	11/2/2005
9155	BREATHING AIR TUBE BANK T-155	I	Y		SITE, T-155 BA	1/14/1994	
9219	BREATHING AIR TRAILER, T-219	A	Y	N	SITE; T-129 BA	7/26/2004	8/1/2005
9234	VAC. PUMP/COLD TRAP, T-234	I	N		SITE; T-234	12/9/1991	
8113S	800-833 OXID IMMERSION SPARES MAIN	I			SPARES 833 IMMERSION		
9101	H2 TUBE TRAILER,T-101 (6000 PSIG)	I	Y	N	Stored	6/2/2003	
9801	Target Tank GOX Fill/Drain Panel	I	N		T/C 844		
9803	Target Tk. Ammonia Fill/Drain Panel	I	Y		T/C 844		
9804	WASTE GAS/GN2 SUPPLY; PORTABLE	I	N		T/C 844, T-804	3/25/1993	
3025	T/S 302 CATCH TANK SYSTEM	I	Y		T/S 302	8/27/1993	9/1/1998
9130S	T-130 SPARES 300 GALLON DEWAR	I	N	N	T-130 DEWAR SPARES		
9148	7500 PSIG GOX RECHARGER T-148	I	Y	Y	T-148 GOX RCH MOBILE	1/22/2003	
9148S	T-158 RCH LOX SPARES MAINT	I	N	Y	T-148 RCH 250 LOX		
9151S	T-151 DEWAR SPARES	I	N	Y	T-151 HPTA PORT		
2117	COPV LONG TERM STORAGE TEST SYSTEM	A	Y	N	T-270A	8/4/2004	8/2/2005
2117N	COPV LONG TERM STORAGE- INACTIVE	I	N	N	T-270A		
2117S	T-270A-COPV SPARES MAINT	I	N	N	T-270A-COPV SPARE		
2017	COPV-SUSTAINED LOAD TEST SYSTEM	A	Y	N	T-275A	8/21/2004	8/2/2005
9903	Oxidizer Portable Propellant System	A	Y	N	Test 401	8/19/2004	8/1/2005
4602	405 SYSTEM COOLING	E	N		TEST STAND 405	3/1/1998	
8888	800 - Maintenace and WJI tracking	I	N	N	TFS / 800 Mint.		
8881	TFS-HSE INSPECTION, MISC. tjk	I			TFS AREAS 8xx/2XX		
8017	.17 / (.07) CAL. LIGHT GAS GUN	I	Y	N	to be 272 area	8/19/2003	7/2/2004
3017	TS301 Oxidizer QCV Test System	A	N	N	TS 301		3/1/2005
9291	HASKEL AIR DRIVEN HEL BOOSTER #1	I	N		TS 301		
9248	T-248, OXIDIZER CHECKOUT CART	A	Y	N	TS 301, T-248 OX CAR	5/19/2004	6/1/2005
9170	STEAM UNIT T-170	I	Y	N	TS 301; T-170 STEAM	3/4/2003	3/1/2004
9247	T-247, FUEL CHECKOUT CART	A	Y	N	TS 301; T-247	5/28/2004	6/1/2005
3027	TS 302 HELIUM SYSTEM	I	N		TS 302	11/19/1999	12/1/2000
3028	TS302/TS303 NITROGEN PANEL	E	N		TS 302	10/18/1999	1/1/2020
3029	OMS TK ATP TEST SYSTEM	I	Y		TS 302	1/8/1999	
3504	300 STEAM - 302 INTERN EJECT SYS.	I	Y		TS 302		
4111	DSH SYSTEM, TS 401	I	N		TS 302	4/23/1997	
9169	STEAM UNIT T-169	I	Y		TS 302, T-169 STEAM	6/30/1997	1/7/2003
3286	FICS DRAIN LINE TEST SYSTEM	I	N		TS 302/328	12/12/1998	12/1/1999
3030	TS 303 CHAMBER & ALTITUDE SYSTEM	A	Y	N	TS 303	8/12/2004	8/1/2005
3031	TS 303 PROPELLANT SYSTEM	A	Y	N	TS 303	4/5/2004	4/1/2005
4110	ETHANOL SYSTEM, TS 401	A	Y	N	TS 401	10/28/2004	11/1/2005
4112	GASEOUS OXYGEN SYSTEM, TS 401	I	Y		TS 401	8/17/1999	
4113	LOX SYSTEM, TS 401	I	Y		TS 401	3/3/2000	4/1/2001
4039	OMS PROPELLANT LOAD TEST GSE	I	Y		TS 403	7/24/1997	
4037		I	Y		TS 403		
3036	TS303 GN2 System	A	Y	N	TS303	3/30/2004	4/1/2005
3033	APU THERMAL CONDITIONING SYSTEM	A	N	N	TS-303	3/30/2004	4/1/2005
3034	APU GAS GEN. COOLING SYSTEM	I	Y		TS-303		
3035	APU LUBRICATION OIL SYSTEM	A	Y	N	TS-303	3/30/2004	4/1/2005
9132	T-132 Decon Flush Cart	A	Y	N	TS-401 (mobile)DECON	8/24/2004	8/1/2005
2104S	MICROGRAVITY TEST SHB?SPARES	I			WAS SHB- NOW 203??		
2080	Chem Lab MDAL- Rapid Decompression	E	Y			12/8/2003	
2101S	Micro Gravity Spares maint changes	I	N				
3010	VP#1 TS301 water dist. System	I					
3016	TS301 Fuel QCV Test System	I	N	N		3/15/2004	3/1/2005

3280	VP#2 TS302/328 water dist. System	I		
4019	VP#1 TS401 & ORSU water dist. Sys.	I		
4029	VP#2 TS402 Water Dist. System	I		
4038	VP#3 TS403 Water Dist. System	I		
4049	VP#4 FRSU & FU decon Water System	I		
4079	VP#7 Alky Storage/Run tk water sys	I		
4089	VP#8 Diesel Pad Water Dist. System	I		
5003	Primary - LN2/GN2 Supply	I	Y	N
8012S	800- GOX Supply Spares & Main.	I		Y
8029S	TFS Cylinder Tracking Spares	I	Y	Y
8035S	Cell 825HFTA-CELL 835 SPARES	I	N	N
8102S	Cell 111 800 area soares & maint	I		
8114S	Cell 834-LASE COMB. SPARES	I	N	Y
9113S	Dewar TK101/T-101DEWAR	I	N	Y
9901	ESTA - Orbiter Hyd. Load Simulator	I	N	N

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PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

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1	Workload Sizing Data	J-12-1

Attachment J-12
Workload Unit Amounts

Values for Basic Period, Contract Year One			
Item No.	**Description of Services**	**Unit**	**No. Units**
3.1	**Management Systems**		
b.	Support WSTF certification audits to ISO 9001 and 14001	Semi-annual Certification Audits	4
c.	Participate in the performance of internal audits with other WSTF-resident contractor and NASA representatives	Internal audits	12
3.2	**General Requirements**		
b.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. In accordance with (IAW) DRD 001 Project Reporting	Monthly project status reports	12
d.	Operate certified Pressurized Vessels and Systems (PV/S).	PV/S certifications	See J-11
3.3.1	**Systems Safety Management**		
a.	Provide and coordinate performance of a Safety and Health Plan. IAW DRD 002 Safety and Health Plan.	Plan Implementation Assessment	1
b.	Review 80 to 100 hazard analysis, system safety analysis, and readiness reviews information for appropriate identification of hazards and acceptability of associated controls, each year.	Reviews	100
c.	Investigate 75 to 100 potential hazards and system safety compliance issues and provide consultation to project personnel on options for compliance. Coordinate minimum weekly with FOSC Institutional Safety and NASA representatives as necessary.	Hazards and Issues Coordination actions	100 52
d.	Assess WSTF compliance with Process Safety Management of Highly Hazardous Chemicals and OSHA Laboratory Standard.	Compliance Assessments	16

Workload Unit Amounts

Values for Basic Period, Contract Year One			
Item No.	**Description of Services**	**Unit**	**No. Units**
3.4.1	**Training Management & Administration**		
a.	Ensure training status is accurately reported to the FOSC Contractor. There are approximately 800 active training categories, with approximately 24,000 current training actions active (See Section J-10).	Training actions	See J-10
3.5	**Quality Assurance**		
a.	Prepare and maintain a Quality Plan. IAW DRD 003 Quality Data Plan and Report.	Plan implementation assessments	1
b.	Perform work document initiation, in-process control, and close-out actions. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document control actions	4,000
d.	Perform work document review and coordination. Review includes verification of all current deviations, revisions, and modifications. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document verification actions	4,000
e.	Perform pressure vessel/system (PV/S) surveillance and configuration verification for each active pressure system on an annual basis. (PV/S consists of approximately 250 systems totaling 8000 components of which 2000 are vessels.) Refer to Section J-11 for list of all PV/S	PV/S configuration verifications	See J-11

Workload Unit Amounts

Values for Basic Period, Contract Year One			
Item No.	**Description of Services**	**Unit**	**No. Units**
f.	Maintain the Discrepancy Record system which is employed to document product nonconformance and corrective or preventive action. Verify status and closure of identified product nonconformance. Approximately 2,000 DR's are processed annually.)	Nonconformance processing actions	2,000
i.	Perform project and process controls verification, non-destructive evaluation and inspection, and dimensional and volumetric acceptance of fabricated parts. Perform dimensional and volumetric acceptance of fabricated parts intended for flight or critical applications. (20 - 40 components fabricated annually with 20 to 200 dimensions each to verify.) Perform project and process controls verification. Perform non-destructive evaluation and inspection of critical product characteristics as stipulated in project plans and customer agreements. (Approximately 160 major repairs or test processes which require 100+ verifications and 4 to 24 hours of dedicated participation. In addition, a number of selected process characteristics occur on various smaller activities totally approximately 10,000 verifications.)	In-process verification actions	10,000
j.	Prepare WSTF Data Packages (WDP) for each project when required by the customer to verify accuracy of project records, and assure resolution of product nonconformance. (60 - 100 WDP produced annually)	ADP preparation actions	100

Workload Unit Amounts

Values for Basic Period, Contract Year One			
Item No.	**Description of Services**	**Unit**	**No. Units**
k.	Perform audit of WSTF suppliers to assure they are capable of meeting customer requirements. Approximately 10 vendor assessments performed a year.) Verify receipt and delivery of acceptable materials and products. Review procurement requests, orders, specifications and related documents for safety and quality assurance provisions applicable to the associated project requirements. Verify material, batch lot, or acceptance testing is performed to establish or confirm compliance with project specifications.	Supplier assessments	10
.	Provide quality verification of White Sands Space Harbor (WSSH) to assure operational readiness of WSSH navigational aids and runway conditions for Shuttle missions (~5 Shuttle missions per year). Designated verification will be accomplished daily by the FOSC to assure readiness of navigation aids and runway conditions for Shuttle Training Aircraft activities.	Mission readiness verification	5

Attachment J-12
Workload Unit Amounts

Values for Basic Period, Contract Year Two				
Item No.	**Description of Services**	**Unit**	**No. Units**	
3.1	**Management Systems**			
b.	Support WSTF certification audits to ISO 9001 and 14001	Semi-annual Certification Audits	4	
c.	Participate in the performance of internal audits with other WSTF-resident contractor and NASA representatives	Internal audits	12	
3.2	**General Requirements**			
b.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. In accordance with (IAW) DRD 001 Project Reporting	Monthly project status reports	12	
d.	Operate certified Pressurized Vessels and Systems (PV/S).	PV/S certifications	See J-11	
3.3.1	**Systems Safety Management**			
a.	Provide and coordinate performance of a Safety and Health Plan. IAW DRD 002 Safety and Health Plan.	Plan Implementation Assessment	1	
b.	Review 80 to 100 hazard analysis, system safety analysis, and readiness reviews information for appropriate identification of hazards and acceptability of associated controls, each year.	Reviews	100	
c.	Investigate 75 to 100 potential hazards and system safety compliance issues and provide consultation to project personnel on options for compliance. Coordinate minimum weekly with FOSC Institutional Safety and NASA representatives as necessary.	Hazards and Issues Coordination actions	100 52	
d.	Assess WSTF compliance with Process Safety Management of Highly Hazardous Chemicals and OSHA Laboratory Standard.	Compliance Assessments	16	
3.4.1	**Training Management & Administration**			
a.	Ensure training status is accurately reported to the FOSC Contractor. There are approximately 800 active training categories, with approximately 24,000 current training actions active (See Section J-10).	Training actions	See J-10	
3.5	**Quality Assurance**			
a.	Prepare and maintain a Quality Plan. IAW DRD 003 Quality Data Plan and Report.	Plan implementation assessments	1	

Attachment J-12
Workload Unit Amounts

Values for Basic Period, Contract Year Two				
Item No.	**Description of Services**	**Unit**	**No. Units**	
b.	Perform work document initiation, in-process control, and close-out actions. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document control actions	4,000	
d.	Perform work document review and coordination. Review includes verification of all current deviations, revisions, and modifications. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document verification actions	4,000	
e.	Perform pressure vessel/system (PV/S) surveillance and configuration verification for each active pressure system on an annual basis. (PV/S consists of approximately 250 systems totaling 8000 components of which 2000 are vessels.) Refer to Section J-11 for list of all PV/S	PV/S configuration verifications	See J-11	
f.	Maintain the Discrepancy Record system which is employed to document product nonconformance and corrective or preventive action. Verify status and closure of identified product nonconformance. Approximately 2,000 DR's are processed annually.)	Nonconformance processing actions	2,000	
i.	Perform project and process controls verification, non-destructive evaluation and inspection, and dimensional and volumetric acceptance of fabricated parts. Perform dimensional and volumetric acceptance of fabricated parts intended for flight or critical applications. (20 - 40 components fabricated annually with 20 to 200 dimensions each to verify.) Perform project and process controls verification. Perform non-destructive evaluation and inspection of critical product characteristics as stipulated in project plans and customer agreements. (Approximately 160 major repairs or test processes which require 100+ verifications and 4 to 24 hours of dedicated participation. In addition, a number of selected process characteristics occur on various smaller activities totally approximately 10,000 verifications.)	In-process verification actions	10,000	

Attachment J-12
Workload Unit Amounts

Values for Basic Period, Contract Year Two				
Item No.	**Description of Services**	**Unit**	**No. Units**	
j.	Prepare WSTF Data Packages (WDP) for each project when required by the customer to verify accuracy of project records, and assure resolution of product nonconformance. (60 - 100 WDP produced annually)	ADP preparation actions	100	
k.	Perform audit of WSTF suppliers to assure they are capable of meeting customer requirements. Approximately 10 vendor assessments performed a year.) Verify receipt and delivery of acceptable materials and products. Review procurement requests, orders, specifications and related documents for safety and quality assurance provisions applicable to the associated project requirements. Verify material, batch lot, or acceptance testing is performed to establish or confirm compliance with project specifications.	Supplier assessments	10	
l.	Provide quality verification of White Sands Space Harbor (WSSH) to assure operational readiness of WSSH navigational aids and runway conditions for Shuttle missions (~5 Shuttle missions per year). Designated verification will be accomplished daily by the FOSC to assure readiness of navigation aids and runway conditions for Shuttle Training Aircraft activities.	Mission readiness verification	5	

Values for Basic Period, Contract Year Three				
Item No.	Description of Services	Unit	No. Units	
3.1	**Management Systems**			
b.	Support WSTF certification audits to ISO 9001 and 14001	Semi-annual Certification Audits	4	
c.	Participate in the performance of internal audits with other WSTF-resident contractor and NASA representatives	Internal audits	12	
3.2	**General Requirements**			
b.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. In accordance with (IAW) DRD 001 Project Reporting	Monthly project status reports	12	
d.	Operate certified Pressurized Vessels and Systems (PV/S).	PV/S certifications	See J-11	
3.3.1	**Systems Safety Management**			
a.	Provide and coordinate performance of a Safety and Health Plan. IAW DRD 002 Safety and Health Plan.	Plan Implementation Assessment	1	
b.	Review 80 to 100 hazard analysis, system safety analysis, and readiness reviews information for appropriate identification of hazards and acceptability of associated controls, each year.	Reviews	100	
c.	Investigate 75 to 100 potential hazards and system safety compliance issues and provide consultation to project personnel on options for compliance. Coordinate minimum weekly with FOSC Institutional Safety and NASA representatives as necessary.	Hazards and Issues Coordination actions	100 52	
d.	Assess WSTF compliance with Process Safety Management of Highly Hazardous Chemicals and OSHA Laboratory Standard.	Compliance Assessments	16	
3.4.1	**Training Management & Administration**			
a.	Ensure training status is accurately reported to the FOSC Contractor. There are approximately 800 active training categories, with approximately 24,000 current training actions active (See Section J-10).	Training actions	See J-10	
3.5	**Quality Assurance**			
a.	Prepare and maintain a Quality Plan. IAW DRD 003 Quality Data Plan and Report.	Plan implementation assessments	1	
b.	Perform work document initiation, in-process control, and close-out actions. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document control actions	4,000	

Values for Basic Period, Contract Year Three				
Item No.	Description of Services	Unit	No. Units	
d.	Perform work document review and coordination. Review includes verification of all current deviations, revisions, and modifications. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document verification actions	4,000	
e.	Perform pressure vessel/system (PV/S) surveillance and configuration verification for each active pressure system on an annual basis. (PV/S consists of approximately 250 systems totaling 8000 components of which 2000 are vessels.) Refer to Section J-11 for list of all PV/S	PV/S configuration verifications	See J-11	
f.	Maintain the Discrepancy Record system which is employed to document product nonconformance and corrective or preventive action. Verify status and closure of identified product nonconformance. Approximately 2,000 DR's are processed annually.)	Nonconformance processing actions	2,000	
i.	Perform project and process controls verification, non-destructive evaluation and inspection, and dimensional and volumetric acceptance of fabricated parts. Perform dimensional and volumetric acceptance of fabricated parts intended for flight or critical applications. (20 - 40 components fabricated annually with 20 to 200 dimensions each to verify.) Perform project and process controls verification. Perform non-destructive evaluation and inspection of critical product characteristics as stipulated in project plans and customer agreements. (Approximately 160 major repairs or test processes which require 100+ verifications and 4 to 24 hours of dedicated participation. In addition, a number of selected process characteristics occur on various smaller activities totally approximately 10,000 verifications.)	In-process verification actions	10,000	
j.	Prepare WSTF Data Packages (WDP) for each project when required by the customer to verify accuracy of project records, and assure resolution of product nonconformance. (60 - 100 WDP produced annually)	ADP preparation actions	100	

Values for Basic Period, Contract Year Three				
Item No.	Description of Services	Unit	No. Units	
k.	Perform audit of WSTF suppliers to assure they are capable of meeting customer requirements. Approximately 10 vendor assessments performed a year.) Verify receipt and delivery of acceptable materials and products. Review procurement requests, orders, specifications and related documents for safety and quality assurance provisions applicable to the associated project requirements. Verify material, batch lot, or acceptance testing is performed to establish or confirm compliance with project specifications.	Supplier assessments	10	
l.	Provide quality verification of White Sands Space Harbor (WSSH) to assure operational readiness of WSSH navigational aids and runway conditions for Shuttle missions (~5 Shuttle missions per year). Designated verification will be accomplished daily by the FOSC to assure readiness of navigation aids and runway conditions for Shuttle Training Aircraft activities.	Mission readiness verification	5	

Values for Basic Period, Contract Year Four				
Item No.	Description of Services	Unit	No. Units	
3.1	**Management Systems**			
b.	Support WSTF certification audits to ISO 9001 and 14001	Semi-annual Certification Audits	4	
c.	Participate in the performance of internal audits with other WSTF-resident contractor and NASA representatives	Internal audits	12	
3.2	**General Requirements**			
b.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. In accordance with (IAW) DRD 001 Project Reporting	Monthly project status reports	12	
d.	Operate certified Pressurized Vessels and Systems (PV/S).	PV/S certifications	See J-11	
3.3.1	**Systems Safety Management**			
a.	Provide and coordinate performance of a Safety and Health Plan. IAW DRD 002 Safety and Health Plan.	Plan Implementation Assessment	1	
b.	Review 80 to 100 hazard analysis, system safety analysis, and readiness reviews information for appropriate identification of hazards and acceptability of associated controls, each year.	Reviews	100	
c.	Investigate 75 to 100 potential hazards and system safety compliance issues and provide consultation to project personnel on options for compliance. Coordinate minimum weekly with FOSC Institutional Safety and NASA representatives as necessary.	Hazards and Issues Coordination actions	100 52	
d.	Assess WSTF compliance with Process Safety Management of Highly Hazardous Chemicals and OSHA Laboratory Standard.	Compliance Assessments	16	
3.4.1	**Training Management & Administration**			
a.	Ensure training status is accurately reported to the FOSC Contractor. There are approximately 800 active training categories, with approximately 24,000 current training actions active (See Section J-10).	Training actions	See J-10	
3.5	**Quality Assurance**			
a.	Prepare and maintain a Quality Plan. IAW DRD 003 Quality Data Plan and Report.	Plan implementation assessments	1	
b.	Perform work document initiation, in-process control, and close-out actions. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document control actions	4,000	

Values for Basic Period, Contract Year Four				
Item No.	Description of Services	Unit	No. Units	
d.	Perform work document review and coordination. Review includes verification of all current deviations, revisions, and modifications. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document verification actions	4,000	
e.	Perform pressure vessel/system (PV/S) surveillance and configuration verification for each active pressure system on an annual basis. (PV/S consists of approximately 250 systems totaling 8000 components of which 2000 are vessels.) Refer to Section J-11 for list of all PV/S	PV/S configuration verifications	See J-11	
f.	Maintain the Discrepancy Record system which is employed to document product nonconformance and corrective or preventive action. Verify status and closure of identified product nonconformance. Approximately 2,000 DR's are processed annually.)	Nonconformance processing actions	2,000	
i.	Perform project and process controls verification, non-destructive evaluation and inspection, and dimensional and volumetric acceptance of fabricated parts. Perform dimensional and volumetric acceptance of fabricated parts intended for flight or critical applications. (20 - 40 components fabricated annually with 20 to 200 dimensions each to verify.) Perform project and process controls verification. Perform non-destructive evaluation and inspection of critical product characteristics as stipulated in project plans and customer agreements. (Approximately 160 major repairs or test processes which require 100+ verifications and 4 to 24 hours of dedicated participation. In addition, a number of selected process characteristics occur on various smaller activities totally approximately 10,000 verifications.)	In-process verification actions	10,000	
j.	Prepare WSTF Data Packages (WDP) for each project when required by the customer to verify accuracy of project records, and assure resolution of product nonconformance. (60 - 100 WDP produced annually)	ADP preparation actions	100	

Values for Basic Period, Contract Year Four				
Item No.	Description of Services	Unit	No. Units	
k.	Perform audit of WSTF suppliers to assure they are capable of meeting customer requirements. Approximately 10 vendor assessments performed a year.) Verify receipt and delivery of acceptable materials and products. Review procurement requests, orders, specifications and related documents for safety and quality assurance provisions applicable to the associated project requirements. Verify material, batch lot, or acceptance testing is performed to establish or confirm compliance with project specifications.	Supplier assessments	10	
l.	Provide quality verification of White Sands Space Harbor (WSSH) to assure operational readiness of WSSH navigational aids and runway conditions for Shuttle missions (~5 Shuttle missions per year). Designated verification will be accomplished daily by the FOSC to assure readiness of navigation aids and runway conditions for Shuttle Training Aircraft activities.	Mission readiness verification	5	

Values for Basic Period, Contract Year Five			
Item No.	Description of Services	Unit	No. Units
3.1	**Management Systems**		
b.	Support WSTF certification audits to ISO 9001 and 14001	Semi-annual Certification Audits	4
c.	Participate in the performance of internal audits with other WSTF-resident contractor and NASA representatives	Internal audits	12
3.2	**General Requirements**		
b.	Manage and report the technical, schedule, and cost performance for all ordered projects and processes on a periodic basis. In accordance with (IAW) DRD 001 Project Reporting	Monthly project status reports	12
d.	Operate certified Pressurized Vessels and Systems (PV/S).	PV/S certifications	See J-11
3.3.1	**Systems Safety Management**		
a.	Provide and coordinate performance of a Safety and Health Plan. IAW DRD 002 Safety and Health Plan.	Plan Implementation Assessment	1
b.	Review 80 to 100 hazard analysis, system safety analysis, and readiness reviews information for appropriate identification of hazards and acceptability of associated controls, each year.	Reviews	100
c.	Investigate 75 to 100 potential hazards and system safety compliance issues and provide consultation to project personnel on options for compliance. Coordinate minimum weekly with FOSC Institutional Safety and NASA representatives as necessary.	Hazards and Issues Coordination actions	100 52
d.	Assess WSTF compliance with Process Safety Management of Highly Hazardous Chemicals and OSHA Laboratory Standard.	Compliance Assessments	16
3.4.1	**Training Management & Administration**		
a.	Ensure training status is accurately reported to the FOSC Contractor. There are approximately 800 active training categories, with approximately 24,000 current training actions active (See Section J-10).	Training actions	See J-10
3.5	**Quality Assurance**		
a.	Prepare and maintain a Quality Plan. IAW DRD 003 Quality Data Plan and Report.	Plan implementation assessments	1
b.	Perform work document initiation, in-process control, and close-out actions. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document control actions	4,000

Values for Basic Period, Contract Year Five			
Item No.	Description of Services	Unit	No. Units
d.	Perform work document review and coordination. Review includes verification of all current deviations, revisions, and modifications. (3000 – 4000 documents processed annually [includes TPS's, DR's, and WJI's])	Document verification actions	4,000
e.	Perform pressure vessel/system (PV/S) surveillance and configuration verification for each active pressure system on an annual basis. (PV/S consists of approximately 250 systems totaling 8000 components of which 2000 are vessels.) Refer to Section J-11 for list of all PV/S	PV/S configuration verifications	See J-11
f.	Maintain the Discrepancy Record system which is employed to document product nonconformance and corrective or preventive action. Verify status and closure of identified product nonconformance. Approximately 2,000 DR's are processed annually.)	Nonconformance processing actions	2,000
i.	Perform project and process controls verification, non-destructive evaluation and inspection, and dimensional and volumetric acceptance of fabricated parts. Perform dimensional and volumetric acceptance of fabricated parts intended for flight or critical applications. (20 - 40 components fabricated annually with 20 to 200 dimensions each to verify.) Perform project and process controls verification. Perform non-destructive evaluation and inspection of critical product characteristics as stipulated in project plans and customer agreements. (Approximately 160 major repairs or test processes which require 100+ verifications and 4 to 24 hours of dedicated participation. In addition, a number of selected process characteristics occur on various smaller activities totally approximately 10,000 verifications.)	In-process verification actions	10,000
j.	Prepare WSTF Data Packages (WDP) for each project when required by the customer to verify accuracy of project records, and assure resolution of product nonconformance. (60 - 100 WDP produced annually)	ADP preparation actions	100

Values for Basic Period, Contract Year Five			
Item No.	**Description of Services**	**Unit**	**No. Units**
k.	Perform audit of WSTF suppliers to assure they are capable of meeting customer requirements. Approximately 10 vendor assessments performed a year.) Verify receipt and delivery of acceptable materials and products. Review procurement requests, orders, specifications and related documents for safety and quality assurance provisions applicable to the associated project requirements. Verify material, batch lot, or acceptance testing is performed to establish or confirm compliance with project specifications.	Supplier assessments	10
l.	Provide quality verification of White Sands Space Harbor (WSSH) to assure operational readiness of WSSH navigational aids and runway conditions for Shuttle missions (~5 Shuttle missions per year). Designated verification will be accomplished daily by the FOSC to assure readiness of navigation aids and runway conditions for Shuttle Training Aircraft activities.	Mission readiness verification	5

Values for Basic Period, Contract Year Five			
Item No.	Description of Services	Unit	No. Units

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT I D CODE

PAGE 1 OF PAGES 2

AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
001	See Block 16c	4200098306	

6. ISSUED BY CODE BH5

NASA JSC WSTF
P.O. BOX 20
Attn: Irene Garcia
Las Cruces, NM 88004

7. ADMINISTERED BY CODE

Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE

FACILITY CODE

(9) 9A. AMENDMENT OF SOLICITATION NO NO

☐ 9B. DATED *(SEE ITEM 11)*

(10) 10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C

☒ 10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers (IS OR IS NOT) extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Increase by: $1,000,000

Financial Management

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

☐ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

☑ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
Limitation of Funds 52.232-22

☐ C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

☐ D. OTHER *(Specify type of modification and authority)*

IMPORTANT: Contractor (is or is not) required to sign this document and return ____ copies to the issuing office.

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

a. The purpose of this modification is to update Section B.4 Contract Funding. The contract funding is increased by $1,000,000 from $0 to $1,000,000.
b. Page 2 contains a breakout of funding.
c. See SPICE for updated section.

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*

16A. NAME AND TITLE OF CONTRACTING OFFICER
Valerie A. Marburger

15B. CONTRACTOR/OFFEROR

(Signature of person authorized to sign)

16B. UNITED STATES OF AMERICA
Valerie A Marburger
(Signature Of Contracting Officer)

16C. DATE SIGNED 2/28/06

14. Continuation

Cost			
	Prior Obligation	This Action	Cumulative Obligation
CF (CR)	$ -	$ 83,337	$ 83,337
Phase-In (FP)	$ -	$ 370,344	$ 370,344
CR DO's (T1-)	$ -	$ 472,245	$ 472,245
FFP DO's (D1-)	$ -	$ -	$ -
Cost Subtotal	$ -	$ 925,926	$ 925,926
Fee			
	Prior Obligation	This Action	Cumulative Obligation
CF (CR)	$ -	$ 11,111	$ 11,111
CR DO's (T1-)	$ -	$ 62,963	$ 62,963
FFP DO's (D1-)	$ -	$ -	$ -
Fee Subtotal	$ -	$ 74,074	$ 74,074
Cost & Fee Total	$ -	$ 1,000,000	$ 1,000,000

This allotment is for test and evaluation operations and support services and covers the following estimated period of performance: March 1, 2006, through June 30, 2006

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	CONTRACT I D CODE	PAGE 1 OF PAGES 8

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
002	See Block 16c		

NASA JSC WSTF P.O. BOX 20	CODE BH5	7. ADMINISTERED BY Same as Block 6	CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*			
Jacobs Sverdrup Sverdrup Technologies, Inc. 600 Williams Northern Blvd. PO Box 884		(9)	9A. AMENDMENT OF SOLICITATION NO NO
		☐	9B. DATED *(SEE ITEM 11)*
		(10)	10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C
CODE	FACILITY CODE	☒	10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers (IS OR IS NOT) extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Financial Management

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

☐ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

☐ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

☑ C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
Mutual Agreement of the Parties

☐ D. OTHER *(Specify type of modification and authority)*

IMPORTANT: Contractor (is ~~or is not~~) required to sign this document and return 2 copies to the issuing office.

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

a. The purpose of this supplemental agreement is to: update sections A, C, G, I and J
b. Page 2 of this modification contains a listing of all changes
c. See SPICE for updated sections.

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER	
Beck Program Manager		Valerie A. Marburger	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)	3/8/06	Valerie A Marburger *(Signature Of Contracting Officer)*	3/8/06

SECTION	CLAUSE	REMARKS
A TOC		Table of Contents, under Section I, add "I.16 PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL". Under Section J, add, "J.13 PERSONAL IDENTIFICATION PROCEDURE".
C	Paragraph 1.0 Introduction	In the first sentence of this paragraph, change "The Technical and Evaluation Contract (TEC)" to "The Test and Evaluation Contract (TEC)".
G.10	JSC 52.204-91 JAN 2006	The following clause is updated and in full text on pages 3-4 of this modification.
G.14	JSC 52.242.92 JAN 2006	The following clause is updated and in full text on page 4 of this modification.
I.1	FAR 52.232-18 APR 1984	Availability of Funds clause deleted.
I.1	FAR 52.232-25 OCT 2003	Prompt Payment (Alternate I) clause should only be listed under cost-reimbursement and should be deleted from Firm-Fixed-Price. Prompt Payment clause should be listed for both Firm-Price and Cost-Reimbursement.
I.1	FAR 52.245-5 MAY 2004	The following is added after the clause title: (Deviation) (As modified by NASA PIC 99.15)
I.16	FAR 52.204-9 JAN 2006	The following clause is added as I.16: Personal Identity Verification of Contractor Personnel (Jan 2006) (a) The Contractor shall comply with agency personal identity verification procedures identified in the contract that implement Homeland Security Presidential Directive-12 (HSPD-12), Office of Management and Budget (OMB) guidance M-05-24, and Federal Information Processing Standards Publication (FIPS PUB) Number 201. (b) The Contractor shall insert this clause in all subcontracts when the subcontractor is required to have physical access to a federally-controlled facility or access to a Federal information system. (End of clause)
J		The List of Attachments is updated to include J-13 entitled PIV Card Issuance Procedures.
J-13		The enclosed Personal Identification Procedure is added to the contract and is in full text on pages 5-8 of this modification.

Security/Badging Requirements for Foreign National Visitors and Employees/Representatives of Foreign Contractors. (JSC 52.204-91) (JAN 2006)

(a) An employee of a domestic Johnson Space Center (JSC) contractor or its subcontractor who is not a U.S. citizen (foreign national) may not be admitted to the JSC site for purposes of performing work without special arrangements. In addition, all employees or representatives of a foreign JSC contractor/subcontractor may not be admitted to the JSC site without special arrangements. For employees as described above, advance notice must be given to the Security Office of the host installation [JSC or White Sands Test Facility (WSTF)] at least 3 weeks prior to the scheduled need for access to the site so that instructions on obtaining access may be provided. Contractors should be aware that approval for access to the site and issuance of a badge may take much longer than three weeks and sufficient lead time must be allowed to accommodate the approval process.

(b) All visit/badge requests for persons described in (a) above must be entered in the NASA Foreign National Management System (NFNMS) for acceptance, review, concurrence and approval purposes. When an authorized company official requests a JSC or WSTF badge for site access, he/she is certifying that steps have been taken to ensure that its contractor or subcontractor employees, visitors, or representatives will not be given access to export-controlled or classified information for which they are not authorized. The authorized company officials shall serve as the contractor's representative(s) in certifying that all visit/badge request forms are processed in accordance with JSC and WSTF security and export control procedures. No foreign national, representative, or resident alien contractor/subcontractor employee shall be granted access into JSC or WSTF until approved and processed through the NFNMS. Unescorted access will not be granted unless a favorable National Agency Check (NAC) has been completed by the JSC Security Office, and an approved NASA Foreign National Visitor Security/Technology Control Plan (STTCP), (previously called the Access Control Plan) has been submitted and approved.

(c) The contractor agrees that it will not employ for the performance of work onsite at the JSC or WSTF any individuals who are not legally authorized to work in the United States. If the JSC or WSTF Industrial Security Specialist or the contracting officer has reason to believe that any employee of the contractor may not be legally authorized to work in the United States and/or on the contract, the contractor may be required to furnish copies of Form I-9 (Employment Eligibility Verification), U.S. Department of Labor Application for Alien Employment Certification, and any other type of employment authorization document.

The contractor agrees to provide the information requested by the JSC or WSTF Security Office in order to comply with NASA policy directives and guidelines related to foreign visits to NASA facilities so that (1) the visitor/employee/ representative may be allowed access to JSC or other NASA Centers for performance of this contract, (2) required investigations can be conducted, and (3) required annual or revalidation reports can be submitted to NASA Headquarters. All requested information must be submitted in a timely manner in accordance with instructions provided by JSC or any other Center to be visited.

(End of clause)

Identification of Employees. (JSC 52.242-92) (JAN 2006)

At all times while on Government property, the contractor, subcontractors, their employees and agents shall wear badges which will be issued by the NASA Badging & Visitor Control Office, located in Building 110 at the Johnson Space Center (JSC), or at the Main Gate at the White Sands Test Facility (WSTF). JSC employee and visitor badges will be issued only between the hours of 6:00 a.m. to 7:30 p.m., Monday through Friday, and 7:00 am to 4:00 pm on Saturday and Sunday. WSTF employee badges will be issued only between the hours of 8 a.m. to 2 p.m., Monday through Friday. WSTF visitor badges will be issued on a 7-day a week, 24-hour a day basis. Resident aliens and foreign nationals/representatives shall be issued green foreign national badges.

Each individual who wears a badge shall be required to sign personally for the badge. The contractor shall be held accountable for issued badges and all other related items and must assure that they are returned to the NASA Badging & Visitor Control Offices upon completion of work under the contract in accordance with Security Management Directive (SMD) 500-15, "Security Termination Procedures." Failure to comply with the NASA contractor termination procedures upon completion of the work (e.g., return of badges, keys, CAA cards, clearance terminations, JSC Public Key Infrastructure (PKI)/special program deletions, etc.) may result in final payment being delayed.

(End of clause)

Enclosure to PIC 06-01

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.

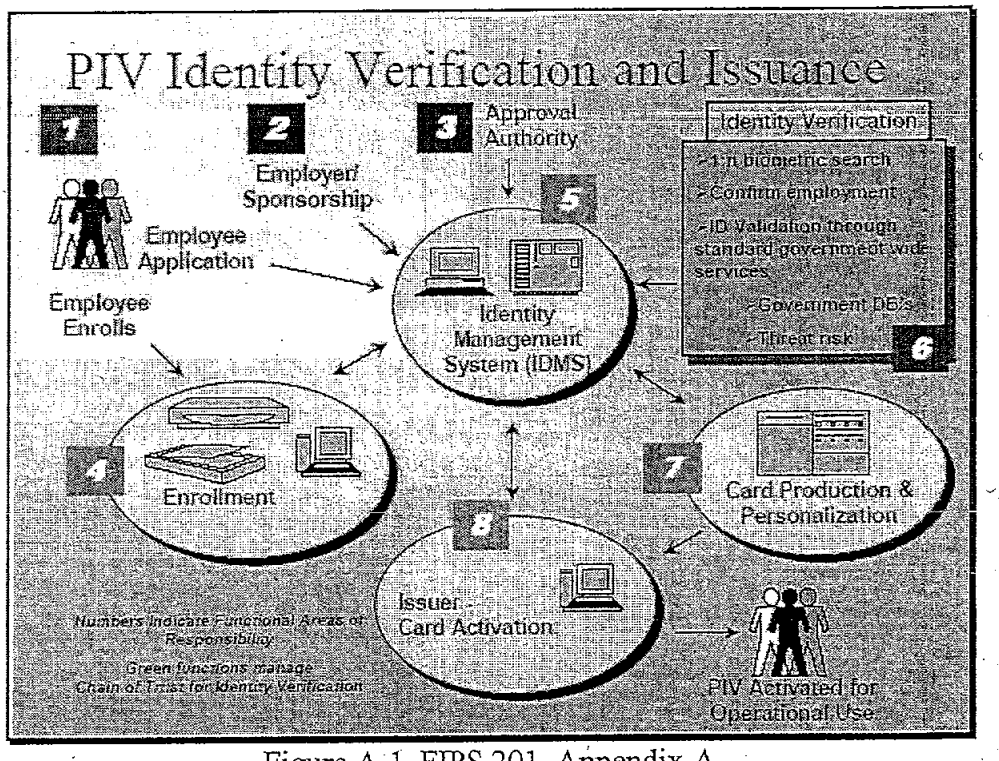

Figure A-1, FIPS 201, Appendix A

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 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 Federal[1] 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:

[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

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 a National Crime Information Center (NCIC) with an Interstate Identification Index check is/has been performed. 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.

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.

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.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT I D CODE

PAGE 1 OF PAGES 15

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
003	See Block 16c		

6. ISSUED BY — CODE JRG

A JSC WSTF
Attn: Irene Garcia
P.O. BOX 20
Las Cruces, NM 88004

7. ADMINISTERED BY — CODE

Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE

FACILITY CODE

(9) 9A. AMENDMENT OF SOLICITATION NO NO

9B. DATED *(SEE ITEM 11)*

(10) 10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C

10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers (IS OR IS NOT) extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Financial Management

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

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

IMPORTANT: Contractor IS required to sign this document and return 3 copies to the issuing office.

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

The purpose of this supplemental agreement is to: update Sections I, and J-2, (DRDs and DRL), and J-14. Page 2 contains a listing of all changes.

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER
Beck Program Manager		Michael B. Lalla
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	6/20/06	16B. UNITED STATES OF AMERICA *(Signature Of Contracting Officer)* — 16C. DATE SIGNED 6/20/06

SECTION	CLAUSE	PAGES	REMARKS
A	TOC	0	Update Table of Contents: Section B.4 "Contract Funding" is replaced to read "B.4 RESERVED". Section J is modified to add the following line item after line item J.13, "J.14 Recapitulization of Funding". "Part IV– Representations And Instructions Section K – Representations, Certifications And Other Statement Of Offerors" and its sub listings are deleted in their entirety.
I.1	FAR 52.244-2	0	The following is added after the "by reference" clause: "Insert ERC, Muniz Engineering, and GeoControl after paragraph k"
J	List of Attachments	0	This section is updated to include Attachment J-14, "Recapitulization of Funding".
J-2	DRL	10	The DRL is deleted in its entirety and replaced with the attached DRL to include the following revisions: the Government Property Management Plan (DRD 014), is marked "Deleted per Johnny Bernal 4/21/06" in the Data Requirements List (DRL) and deleted from the Data Requirements Descriptions; and the "1st submission due date" for both DRDs 015 and 016 is now 30 days AFTER contract start.
J-2	DRD 013	2	DRD 13 is deleted in its entirety and replaced with the attached DRD (language in "block 4" and paragraph "3.1 Scope" is changed).
J-2	DRD 015	0	Paragraph, "2.0 Initial Submission", is changed to read, "30 days after contract start".
J-2	DRD 016	0	Paragraph, "2.0 Initial Submission", is changed to read, "30 days after contract start".
J-14		2	Modification 4 inadvertently designated J-13 as "Recapitulization of Funding"; therefore J-13 for modification 4 is deleted in its entirety and replaced with the attached J-14, "Recapitulization of Funding".
Total Page Count		14	

PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

ATTACHMENT J-2 - DRL

TEC DATA REQUIREMENTS LIST (DRL)

(See reverse for instructions)
Based on JSC-STD-123

a. Title of Contract, Project, SOW, etc.: Test and Evaluation Contract

b. Contract/RFP No.: RFP #NNJO5098306R

c. DRL Date/Mod Date: April 26, 2005

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
001	Project Reporting	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	WK/MO		30 days Contract start date	Elec	See #8
002	Safety and Health Plan (WSTF TEC)	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		Proposal	E/HC	See #8
003	Quality Plan	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		Proposal	E/HC	See #8

Line item 001

8. Distribution *(Continue on a blank sheet if needed)*
1) Project Manager
2) Contracting Officers Technical Representative
3) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.

Line item 002

8. Distribution *(Continue on a blank sheet if needed)*
1) NS/Safety & Test Operations
2) NS3/S&MA – WSTF
3) SD/Occupational Health
4) Contracting Officers Technical Representative

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.

Line item 003

8. Distribution *(Continue on a blank sheet if needed)*
1) NS3/WSTF Safety & Mission Assurance
2) NASA, TEC, and FOSC Management System Representatives
3) RA/Chief Engineer
4) Contractin Officer's Technical Representative

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media dsitribution may also be indicated within each DRD.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

a. Title of Contract, Project, SOW, etc.: Test and Evaluation Contract

b. Contract/RFP No.: RFP #NNJO5098306R

c. DRL Date/Mod Date: April 26, 2005

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
004	Monthly Maintenance Report	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	MO		Upon contract start	Othe	See #8
005	Ordnance Inventory Management Report	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	QU		Upon contract start		See #8
006	Equipment Replacement Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		30 days Contract start	Elec	See #8

Line item 004

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer's Technical Representative
2) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD. *Format for these reports will be reviewed and subject to approval by COTR.

Line item 005

8. Distribution *(Continue on a blank sheet if needed)*
1) NS3/WSTF Safety & Mission Assurance Office
2) RC/Engineering Office
3) Contracting Officer's Technical Representative

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.

Line item 006

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer's Technical Representative
2) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

Page ____ of ____

a. Title of Contract, Project, SOW, etc.: Test and Evaluation Contract

b. Contract/RFP No.: RFP #NNJO5098306R

c. DRL Date/Mod Date: April 26, 2005

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
007	Work Breakdown Structure and Dictionary	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	RT		Proposal*	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer's Technical Representative
2) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.
* Submitted with proposal. Final revision delivered 30 days following award.

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
008	Contract Management Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	RT		Proposal*	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer
2) NASA Management and Office Chiefs

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.
* Submitted with proposal. Final revision delivered 90 days following award.

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
009	Overall Program Reporting Plan	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AR		Proposal*	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) RA/Management Representative
2) Contracting Officer's Technical Representative

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.
* Submitted with proposal. Final revision delivered 90 days following award.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

a. Title of Contract, Project, SOW, etc.: Test and Evaluation Contract

b. Contract/RFP No.: RFP #NNJO5098306R

c. DRL Date/Mod Date: April 25, 2005

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
010	NF533 Cost and Data Reporting	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		See 9.*	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) LF6/Cost Accounting
2) LI/Budget/Program Analyst
3) Contracting Officer

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media distribution may also be indicated within each DRD.
* 533M due no later than 30 days after the incurrence of cost.
* 533Q within 30 days after authorization to proceed.

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
011	Small Business Subcontracting Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		Proposal	E	See below*

8. Distribution *(Continue on a blank sheet if needed)*
Distribution specified below plus additional distribution per Contracting Officer Letter.
- Initial – as specified in the Proposal Instructions
- Final – Contracting Officer, COTR, Task Manager
- Update – Contracting Officer, COTR, Task Manager

9. Remarks
All electronic distribution shall be accomplished using SPICE.
Other media distribution may also be indicated within each DRD.
* Per instructions

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
012	Reprocurement Data Package	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AD		Upon CO Direction	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media distribution may also be indicated within each DRD.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

a. Title of Contract, Project, SOW, etc.: Test and Evaluation Contract

b. Contract/RFP No.: RFP #NNJO5098306R

c. DRL Date/Mod Date: April 26, 2005

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
013	Contractor Security Management Plan	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AN		Upon Transition Start	E/HC	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) RC/WSTF Chief of Security
2) Contracting Officer's Technical Representative
3) RA/WSTF Computer Security Officer

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
014	Government Property Management Plan	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request					See below*

8. Distribution *(Continue on a blank sheet if needed)*
DELETED PER JOHNNY BERNAL 4/21/06

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.
*See DRD for number.

1. Line item no.	2. DRD Title	3. Data type	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
015	Wage/Salary and Fringe Benefit Data	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AN*		30 days after Contract Start	Elec	See #8

8. Distribution *(Continue on a blank sheet if needed)*
1) Contracting Officer

9. Remarks
All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.
* Subsequent deliveries 90 days prior to anniversary date of contract.

JSC Form 2323a (Rev May 1, 1991) (MS Word August 1995)

TEC DATA REQUIREMENTS LIST (DRL) (Cont'd)

(See reverse for instructions)
Based on JSC-STD-123

a. Title of Contract, Project, SOW, etc.	b. Contract/RFP No.	c. DRL Date/Mod Date
Test and Evaluation Contract	RFP #NNJO5098306R	April 26, 2005

1. Line item no.	2. DRD Title	3. Data type:	4. Frequency	5. As-of-date	6. 1st subm. date	7. Copies a. Type	7. Copies b. Number
016	Notification of Potential Labor Dispute & Contingency Strike Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	RT		30 days after Contract Start	Elec	See #8
	8. Distribution *(Continue on a blank sheet if needed)* 1) BA2/Contract Labor Relations Officer 2) Contracting Officer		9. Remarks All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.				
017	Environmental Compliance Plan	☐ (1) Written approval ☒ (2) Mandatory Submittal ☐ (3) Submitted upon request	AN		Proposal*	E/HC	See #8
	8. Distribution *(Continue on a blank sheet if needed)* 1) RC/Engineering Environmental Program Manager 2) RA/Contracting Officers Technical Representative		9. Remarks All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD. * Submitted with proposal. Final revision delivered 30 days following award. Subsequent revisions are subject to NASA review and approval.				
018	Information Technology (IT) Capital	☒ (1) Written approval ☐ (2) Mandatory Submittal ☐ (3) Submitted upon request	AN		Upon Transition Start	E/HC	See #8
	8. Distribution *(Continue on a blank sheet if needed)* 1) RA/Chief Information Officer 2) RA/Contracting Officers Technical Representative		9. Remarks All electronic distribution shall be accomplished using SPICE. Other media dsitribution may also be indicated within each DRD.				

Short Form Instructions for Completing JSC Form 2323 & 2323A

DRL IDENTIFICATION

a. Title - Enter nomenclature descriptive of activity to which the DRL pertains, such as project, contract, statement of work, or request for proposal.
b. Contract/RFP Number - Enter contract number or RFP number, if applicable.
c. Date - Enter DRL preparation date as follows: Month-Day-Year. Subsequent modification dates may also be entered in this block.

LINE ITEM IDENTIFICATION

1. **Line Item No.** - Number line items sequentially, 1 through 999. Items 1, 2, 3, 4 are preprinted on JSC Form 2323. JSC Form 2323A is numbered 5 and following.

2. **DRD Title** - Enter DRD title from block 1 of JSC Form 2341.

3. **Data Type** - Check the appropriate data type. Additional detail needed to clarify types or define subtypes may be added in block 9, REMARKS.

   (1) Written Approval - Data requiring written approval by the NASA OPR before implementation into procurement or development program.
   (2) Mandatory Submittal - Data submitted to NASA for coordination, information, review, and/or management control.
   (3) Submittal upon Request - Data prepared and retained by respondent to be made available to requiring organization upon request.

4. **Frequency** - Enter frequency of submittal code as follows:

Code	*Description*	*Code*	*Description*	*Code*	*Description*
AD	As Directed	DA	Daily	RD	As Released
AN	Annually	DD	Deferred Delivery	RT	One Time and Revisions
AR	As Required	MO	Monthly	SA	Semi-Annually
BE	Biannually (Every other yr.)	OT	One Time	TY	Three Per Year

BM	Bimonthly (Every other mo.)	PV	Per Vehicle	UR	Upon Request
BW	Biweekly (Every other week)	QU	Quarterly	WK	Weekly

5. **As-Of Date** - If reports are of a recurring nature, give as-of date (cutoff date and due date: e.g., 15/1 indicated input cutoff date of 15th and due date of 1st). Amplify in Remarks, Item 9, if necessary.

6. **First Submittal** - Enter Month/Day/Year of initial submittal. If calendar date is not scheduled, enter number of days preceding or following event to which data requirement is related (e.g., 90 days prior to launch). Amplify in Remarks, Item 9, if necessary.

7. **Copies** - Complete 7a and 7b as specified below.

   a. Type - Enter code as follows:

Code	*Definition*	*Code*	*Definition*
PRINT	Printed Copies	MICRO	Microfilm Aperture Cards
REPRO	Reproducible Copy	OTHER	Explain Remarks, Item 9
HC	Hard copy	E	Electronic

   b. Number - Enter number of copies required opposite each type of copy furnished.

8. **Distribution** - List current codes or addresses and names of organizations, which are to receive copies of documents, generated under the DRD. If more than one copy is required, so indicate in parenthesis by recipient's name. Continue on a blank sheet if necessary.

9. **Remarks** - Enter in this space.

a. Reference to specific work statement paragraph as applicable to explain relationship of data to task.
b. Additional submittal information, if necessary.
c. Comments which explain an entry made in any block of the DRL.
d. OPR for a specific DRD, if different from contract COTR.

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JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No. (Procurement completes
Contractor Security Management Plan	4/26/2005	013	RFP# NNJ05098306R

4. Use *(Define need for, intended use of, and/or anticipated results of data)*	5. DRD Category (*check one*)
The contractor security management plan is used to document how the security requirements of the facility will be adhered to and to describe the controls in place or planned for meeting those requirements. Controls include system capabilities, processes and procedures.	☐ Technical ☒ Administrative ☐ SR&QA

6. References (*Optional*)	7. Interrelationships (*e.g., with other DRDs*) (*Optional*)
Specified below	

8. Preparation Information (*Include complete instructions for document preparation*)

1.0 Submission
- 1.1 Draft: due at transition start
- 1.2 Final: due at contract start
- 1.3 Approved: 30 days after contract start
- 1.4 Submission frequency: annual

2.0 Applicable documents (note: some documents may fall into more than one category and are grouped for reference only)

Federal Documents:
- OMB circular A-130, App. III, Security of Federal Automated Information Resources
- NIST Special Publication 800-18 "Guide for Developing Security Plans
- FAR 52.204-2
- Export Administration Regulations (EAR)
- Arms Export Control Act (AECA)
- Federal Information Security Management Act (FISMA)
- Health Insurance Portability Act (HIPA)

2.2 NASA Agency and JSC Center documents
- NPR 2810.1 Security of Information Technology
- JSC JPG 2810.1B JSC IT Security Handbook

3.0 Data Preparation Information

3.1 Scope: The Plan shall describe the facility security capabilities, processes and procedures implemented to maintain the security integrity for the facility. The plan shall address the security requirements for facilities, systems, equipment, personnel, information, communications, and sensitive IT security procedures State how each security plan shall be specifically generated to address the type of facility and information processed in the facility as

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123. See work page for instructions)

defined JPG 2810.1 (latest version). It is applicable to all facilities identified in this Statement of Work.

3.2 Content: The processes for data collection shall be established, defined and documented to ensure adequate visibility and insight for Government personnel. The content described in JPG 2810.1B (latest) Section 5.11 "IT Security Plan Content" shall be adhered to.

3.3 Format: Format shall be in the form specified by NIST computer security guidelines.

3.4 Distribution: per Contracting Officer's letter

3.5 Personnel Access to Secure Areas: Describe processes to accommodate secure access to areas serviced by this contract. Access to White Sands Complex (WSC) and the adjoining DOD facility are controlled in accordance with:

- ~~NPR 1600.1, NASA Security Manual~~
- NPR 1371.2A, Procedural Requirements for Processing Requests for Access to NASA Installations or Facilities by Foreign Nationals or US Citizens Who are Representatives of Foreign Entities
- DOD 5220, National Industrial Security Program Manual
- WSC-PLN-009, WSC Security Manual
- Network Advisory Message (NAM) 886

4.0 Maintenance:

4.1 Changes to each facility security plan shall be documented per the NASA/JSC Facility Computer Security Officer guidelines for addendums to security plans. Contents of addendums shall be incorporated into the next release of the security plan.

4.2 Security plans for General Support Systems shall be updated as a minimum every three years, as significant architecture or functional changes are incorporated, or as required by NASA.

PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

ATTACHMENT J-14 – Recapitulization of Funding - TOC

LIST	Title	Page
1	Recapitulization of Funding	J-14-1

J-14 RECAPITULATION OF FUNDING

(MODIFICATION 3)

		Prior Obligation		This Action		Cumulative Obligation
CF (CR) Cost	$	83,337	$	777,778	$	861,115
Phase-In (FP) Cost	$	370,344	$	-	$	370,344
CR DO's (T1-) Cost	$	472,245	$	4,407,407	$	4,879,652
FFP DO's (D1-) Cost	$	-	$	-	$	-
Cost Subtotal	$	925,926	$	5,185,185	$	6,111,111
CF (CR) Fee	$	11,111	$	62,222	$	73,333
CR DO's (T1-) Fee	$	62,963	$	352,593	$	415,556
FFP DO's (D1-) Fee	$	-	$	-	$	-
Fee Subtotal	$	74,074	$	414,815	$	488,889
Cost & Fee Total	$	**1,000,000**	$	**5,600,000**	$	**6,600,000**

PR #	MODIFICATION #		AMOUNT
4200098306	1	$	1,000,000.00
4200157340	2	$	5,600,000.00

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT I D CODE

PAGE 1 OF PAGES 3

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
004	See Block 16c	4200157340	

6. ISSUED BY — CODE BH5

NASA JSC WSTF
P.O. BOX 20
Attn: Irene Garcia
Las Cruces, NM 88004

7. ADMINISTERED BY — CODE

Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE

FACILITY CODE

(9) 9A. AMENDMENT OF SOLICITATION NO NO

9B. DATED *(SEE ITEM 11)*

(10) 10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C

10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers (IS OR IS NOT) extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Increase by: $5,600,000.

Financial Management

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

- [ ] A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
- [x] B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
  Limitation of Funds 52.232-22
- [ ] C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- [ ] D. OTHER *(Specify type of modification and authority)*

IMPORTANT: Contractor (is or is not) required to sign this document and return ____ copies to the issuing office.

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

The purpose of this modification is to obligate $5,600,000.00 which funds the contract through August 15, 2006.
a. Article B.4 - CONTRACT FUNDING, is deleted in its entirety and the attached Article B.4 page B-12-2 is substituted.
b. Attachment J-13 - RECAPITULIZATION OF FUNDING, is hereby added as part of the contract in order to establish a funding recapitulization.

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER Michael B. Lalla	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*		16B. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	16C. DATE SIGNED 5/9/06

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: March 1, 2006, through August 15, 2006.

(b) Recapitulation of Funding: See J-13 (Recapitulation of Funding).

[END OF SECTION]

J-13 RECAPITULATION OF FUNDING

(MODIFICATION 4)

	Prior Obligation	This Action	Cumulative Obligation
CF (CR) Cost	$ 83,337	$ 777,778	$ 861,115
Phase-In (FP) Cost	$ 370,344	$ -	$ 370,344
CR DO's (T1-) Cost	$ 472,245	$ 4,407,407	$ 4,879,652
FFP DO's (D1-) Cost	$ -	$ -	$ -
Cost Subtotal	$ 925,926	$ 5,185,185	$ 6,111,111
CF (CR) Fee	$ 11,111	$ 62,222	$ 73,333
CR DO's (T1-) Fee	$ 62,963	$ 352,593	$ 415,556
FFP DO's (D1-) Fee	$ -	$ -	$ -
Fee Subtotal	$ 74,074	$ 414,815	$ 488,889
Cost & Fee Total	**$ 1,000,000**	**$ 5,600,000**	**$ 6,600,000**

PR #	MODIFICATION #	AMOUNT
4200098306	1	$ 1,000,000.00
4200157340	2	$ 5,600,000.00

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	CONTRACT I D CODE	PAGE OF PAGES 1 3

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
005	See Block 16c	4200163829	

6. ISSUED BY CODE BH5
NASA JSC WSTF
P.O. BOX 20
Attn: Rogelio Curiel
Las Cruces, NM 88004

7. ADMINISTERED BY CODE
Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*
Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE
FACILITY CODE

(9) 9A. AMENDMENT OF SOLICITATION NO NO
☐ 9B. DATED *(SEE ITEM 11)*

(10) 10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C
☒ 10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers (IS OR IS NOT) extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(if required)*
Increase by: $1,824,050.00
Financial Management

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

☐ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

☑ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
Limitation of Funds 52.232-22

☐ C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

☐ D. OTHER *(Specify type of modification and authority)*

IMPORTANT: Contractor (~~is~~ is not) required to sign this document and return 0 copies to the issuing office.

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

The purpose of this modification is to obligate $1,824,050.00 which funds the contract through September 06, 2006.

a. Article B.4 - CONTRACT FUNDING, is deleted in its entirety and the attached Article B.4 page B-12-3 is substituted.
b. Attachment J-13 - RECAPITULIZATION OF FUNDING, is hereby deleted in its entirety and the attached J-13 page J-13-2 is substituted.

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER Valerie A. Marburger	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*		16B. UNITED STATES OF AMERICA Valerie A Marburger *(Signature Of Contracting Officer)*	16C. DATE SIGNED 6/26/06

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: March 1, 2006, through September 06, 2006.

(b) Recapitulation of Funding: See J-13 (Recapitulation of Funding).

[END OF SECTION]

J-13 RECAPITULATION OF FUNDING

(MODIFICATION 5)

	Prior Obligation	This Action	Cumulative Obligation
CF (CR) Cost	$ 861,115	$ 253,340	$ 1,114,455
Phase-In (FP) Cost	$ 370,344	$ -	$ 370,344
CR DO's (T1-) Cost	$ 4,879,652	$ 1,435,595	$ 6,315,247
FFP DO's (D1-) Cost	$ -	$ -	$ -
Cost Subtotal	$ 6,111,111	$ 1,688,935	$ 7,800,046
CF (CR) Fee	$ 73,333	$ 20,267	$ 93,601
CR DO's (T1-) Fee	$ 415,556	$ 114,848	$ 530,403
FFP DO's (D1-) Fee	$ -	$ -	$ -
Fee Subtotal	$ 488,889	$ 135,115	$ 624,004
Cost & Fee Total	**$ 6,600,000**	**$ 1,824,050**	**$ 8,424,050**

PR #	MODIFICATION #	AMOUNT
4200098306	1	$ 1,000,000.00
4200157340	2	$ 5,600,000.00
	3	$ -
	4	$ -
4200163829	5	$ 1,824,050.00

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT I D CODE

PAGE 1 OF PAGES 3

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
006	See Block 16c	4200167692/4200163829	

CODE BH5

NASA JSC WSTF
P.O. BOX 20
Attn: Irene Garcia
Las Cruces, NM 88004

7. ADMINISTERED BY CODE

Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE

FACILITY CODE

(9) 9A. AMENDMENT OF SOLICITATION NO NO

☐ 9B. DATED *(SEE ITEM 11)*

(10) 10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C

☒ 10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers IS NOT extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Increase by: $2,500,000

Financial Management

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

☐ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

☑ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
FAR 52.232-22 Limitation of Funds

☐ C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

☐ D. OTHER *(Specify type of modification and authority)*

IMPORTANT: Contractor IS NOT required to sign this document and return copies to the issuing office.

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

The purpose of this modification is to obligate $2,521,600 (4200167692) and deobligate $21,600 (4200163829) for a net increase of $2,500,000, which funds the contract through October 06, 2006.

a. Article B.4 - CONTRACT FUNDING, is deleted in its entirety and the attached Article B.4 page B-12-3 is substituted.
b. Attachment J-13 - RECAPITULIZATION OF FUNDING, is hereby deleted in its entirety and the attached J-13 page J-13-2 is

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

NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER Valerie A. Marburger	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*		16B. UNITED STATES OF AMERICA Valerie A Marburger *(Signature Of Contracting Officer)*	16C. DATE SIGNED 7/21/06

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: March 1, 2006, through October 06, 2006.

(b) Recapitulation of Funding: See J-13 (Recapitulation of Funding).

[END OF SECTION]

J-13 RECAPITULATION OF FUNDING

(MODIFICATION 6)

		Prior Obligation		This Action		Cumulative Obligation
CF (CR) Cost	$	1,114,455	$	347,222	$	1,461,677
Phase-In (FP) Cost	$	370,344	$	-	$	370,344
CR DO's (T1-) Cost	$	6,315,247	$	1,967,593	$	8,282,840
FFP DO's (D1-) Cost	$	-	$	-	$	-
Cost Subtotal	$	7,800,046	$	2,314,815	$	10,114,861
CF (CR) Fee	$	93,601	$	27,778	$	121,379
CR DO's (T1-) Fee	$	530,403	$	157,407	$	687,810
FFP DO's (D1-) Fee	$	-	$	-	$	-
Fee Subtotal	$	624,004	$	185,185	$	809,189
Cost & Fee Total	**$**	**8,424,050**	**$**	**2,500,000**	**$**	**10,924,050**

PR #	MODIFICATION #		AMOUNT
4200098306	1	$	1,000,000.00
4200157340	2	$	5,600,000.00
	3	$	-
	4	$	-
4200163829	5	$	1,824,050.00
4200167692	6	$	2,521,600
4200163829	6		($21,600.00)
		$	10,924,050.00

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	CONTRACT I D CODE	PAGE OF PAGES 1 5

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
007	See Block 16c	N/A	

6. ISSUED BY CODE BH5
NASA JSC WSTF
P.O. BOX 20
Attn: Irene Garcia
Las Cruces, NM 88004

7. ADMINISTERED BY CODE
Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*
Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE | FACILITY CODE

(9) 9A. AMENDMENT OF SOLICITATION NO
9B. DATED *(SEE ITEM 11)*

(10) 10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C
10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers IS NOT extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Financial Management

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

- [ ] A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
- [ ] B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- [x] C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Changes Clause - Cost Reimbursement 52.243-2
- [ ] D. OTHER *(Specify type of modification and authority)*

IMPORTANT: Contractor IS required to sign this document and return 3 copies to the issuing office.

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

SEE PAGE 2

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER	
J K Beck		Michael B. Lalla	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	8/1/06	16B. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	16C. DATE SIGNED 8/2/06

Continuation of SF 30, Block 14

The purpose of this modification is to increase the IDIQ cost and fee for award fee period 1 based on the approved delivery orders through June 30, 2006. Delivery orders are approved electronically. The delivery orders supporting this increase in contract value can be found in SPICE via DRD 19.

1. The excel icon and associated excel sheets in Section B, paragraph B.3, "Estimated Cost/Price and Fee" are deleted in their entirety and replaced with the attached, updated excel spreadsheets (pages B-7 and B-8). IDIQ cost value was increased by $10,998,277, IDIQ fee value was increased by $837,876, for a total increase of $11,836,153.

2. Section J-1 "Appendix 3 - Award Fee Distribution" is deleted in its entirety and replaced with the attached Section J-1 "Appendix 3 - Award Fee Distribution".

All other items remain unchanged.

BASIC

	YEAR 1				
	COST	NMGRT	SUBTOTAL PRICE (Cost + Tax)	MAX AWARD FEE	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,557,947.00	$ 223,350.12	$ 3,781,297.12	$ 284,635.76	$ 4,065,932.88
PHASE-IN FP	$ 350,000.00	$ 20,343.75	$ 370,343.75		$ 370,343.75
SUBTOTAL	$ 3,907,947.00	$ 243,693.87	$ 4,151,640.87	$ 284,635.76	$ 4,436,276.63
CR TO'S (6TAZTS1 - 6TNPVST) - THIS MOD	$ 10,473,455.00	$ 524,822.00	$ 10,998,277.00	$ 837,876.40	$ 11,836,153.40
FFP DO'S (D1-X)	$ -		$ -		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ 10,473,455.00	$ 524,822.00	$ 10,998,277.00	$ 837,876.40	$ 11,836,153.40
TOTAL CONTRACT VALUE YEAR 1	$ 14,381,402.00	$ 768,515.87	$ 15,149,917.87	$ 1,122,512.16	$ 16,272,430.03

BLACK = NO INPUT AREA

	YEAR 2				
	COST	NMGRT	SUBTOTAL PRICE (Cost + Tax)	MAX AWARD FEE	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,583,938.50	$ 224,981.74	$ 3,808,920.24	$ 286,715.08	$ 4,095,635.32
SUBTOTAL	$ 3,583,938.50	$ 224,981.74	$ 3,808,920.24	$ 286,715.08	$ 4,095,635.32
CR TO'S (T1-X)	$ -	$ -	$ -	$ -	$ -
FFP DO'S (D1-X)	$ -		$ -		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ -	$ -	$ -	$ -	$ -
TOTAL CONTRACT VALUE YEAR 2	$ 3,583,938.50	$ 224,981.74	$ 3,808,920.24	$ 286,715.08	$ 4,095,635.32
TOTAL YEAR 1 VALUE	$ 14,381,402.00	$ 768,515.87	$ 15,149,917.87	$ 1,122,512.16	$ 16,272,430.03
TOTAL CONTRACT VALUE YEAR 1 - 2	$ 17,965,340.50	$ 993,497.61	$ 18,958,838.11	$ 1,409,227.24	$ 20,368,065.35

BLACK = NO INPUT AREA

	YEAR 3				
	COST	NMGRT	SUBTOTAL PRICE (Cost + Tax)	MAX AWARD FEE	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,513,022.00	$ 220,529.96	$ 3,733,551.96	$ 281,041.76	$ 4,014,593.72
SUBTOTAL	$ 3,513,022.00	$ 220,529.96	$ 3,733,551.96	$ 281,041.76	$ 4,014,593.72
CR TO'S (T1-X)	$ -	$ -	$ -	$ -	$ -
FFP DO'S (D1-X)	$ -		$ -		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ -	$ -	$ -	$ -	$ -
TOTAL CONTRACT VALUE YEAR 3	$ 3,513,022.00	$ 220,529.96	$ 3,733,551.96	$ 281,041.76	$ 4,014,593.72
TOTAL CONTRACT VALUE YEAR 1	$ 14,381,402.00	$ 768,515.87	$ 15,149,917.87	$ 1,122,512.16	$ 16,272,430.03
TOTAL CONTRACT VALUE YEAR 2	$ 3,583,938.50	$ 224,981.74	$ 3,808,920.24	$ 286,715.08	$ 4,095,635.32
TOTAL CONTRACT VALUE YEAR 1-3	$ 21,478,362.50	$ 1,214,027.57	$ 22,692,390.07	$ 1,690,269.00	$ 24,382,659.07

BLACK = NO INPUT AREA

OPTIONS

	YEAR 4				
	COST	NMGRT	SUBTOTAL PRICE (Cost + Tax)	MAX AWARD FEE	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,611,056.00	$ 226,684.04	$ 3,837,740.04	$ 288,884.48	$ 4,126,624.52
SUBTOTAL	$ 3,611,056.00	$ 226,684.04	$ 3,837,740.04	$ 288,884.48	$ 4,126,624.52
CR TO'S (T1-X)	$ -	$ -	$ -	$ -	$ -
FFP DO'S (D1-X)	$ -		$ -		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ -	$ -	$ -	$ -	$ -
TOTAL CONTRACT VALUE YEAR 4	$ 3,611,056.00	$ 226,684.04	$ 3,837,740.04	$ 288,884.48	$ 4,126,624.52
TOTAL CONTRACT VALUE YEAR 1	$ 14,381,402.00	$ 768,515.87	$ 15,149,917.87	$ 1,122,512.16	$ 16,272,430.03
TOTAL CONTRACT VALUE YEAR 2	$ 3,583,938.50	$ 224,981.74	$ 3,808,920.24	$ 286,715.08	$ 4,095,635.32
TOTAL CONTRACT VALUE YEAR 3	$ 3,513,022.00	$ 220,529.96	$ 3,733,551.96	$ 281,041.76	$ 4,014,593.72
TOTAL CONTRACT VALUE YEAR 1-4	$ 25,089,418.50	$ 1,440,711.61	$ 26,530,130.11	$ 1,979,153.48	$ 28,509,283.59

BLACK = NO INPUT AREA

	YEAR 5				
	COST	NMGRT	SUBTOTAL PRICE (Cost + Tax)	MAX AWARD FEE	TOTAL COST / PRICE AND FEE
CF (CR)	$ 3,698,179.00	$ 232,153.19	$ 3,930,332.19	$ 295,854.32	$ 4,226,186.51
SUBTOTAL	$ 3,698,179.00	$ 232,153.19	$ 3,930,332.19	$ 295,854.32	$ 4,226,186.51
CR TO'S (T1-X)	$ -	$ -	$ -	$ -	$ -
FFP DO'S (D1-X)	$ -	$ -	$ -		$ -
TOTAL ISSUED IDIQ (NTE $50M/YR)	$ -	$ -	$ -	$ -	$ -
TOTAL CONTRACT VALUE YEAR 5	$ 3,698,179.00	$ 232,153.19	$ 3,930,332.19	$ 295,854.32	$ 4,226,186.51
TOTAL CONTRACT VALUE YEAR 1	$ 14,381,402.00	$ 768,515.87	$ 15,149,917.87	$ 1,122,512.16	$ 16,272,430.03
TOTAL CONTRACT VALUE YEAR 2	$ 3,583,938.50	$ 224,981.74	$ 3,808,920.24	$ 286,715.08	$ 4,095,635.32
TOTAL CONTRACT VALUE YEAR 3	$ 3,513,022.00	$ 220,529.96	$ 3,733,551.96	$ 281,041.76	$ 4,014,593.72
TOTAL CONTRACT VALUE YEAR 4	$ 3,611,056.00	$ 226,684.04	$ 3,837,740.04	$ 288,884.48	$ 4,126,624.52
TOTAL CONTRACT VALUE YEAR 1-5	$ 28,787,597.50	$ 1,672,864.80	$ 30,460,462.29	$ 2,275,007.80	32,735,470.1

BLACK = NO INPUT AREA

APPENDIX 3 – AWARD FEE DISTRIBUTION

Award Fee Period	Evaluation Periods	Amount of CF Award Fee Available	Amount of ID/IQ Award Fee Available	Total Award Fee Available	Total Award Fee Earned	Mods
1	March 1, 2006 – October 31, 2006	$ 142,318	$ 837,876	$ 980,194		006
2	November 1, 2006 – April 30, 2007	$ 142,318		$ 142,318		
3	May 1, 2007 – October 31, 2007	$ 143,358		$ 143,358		
4	November 1, 2007 – April 30, 2008	$ 143,358		$ 143,358		
5	May 1, 2008 – October 31, 2008	$ 140,521		$ 140,521		
6	November 1, 2008 – April 30, 2009	$ 140,521		$ 140,521		
7	May 1, 2009 – October 31, 2009	$ 144,442		$ 144,442		
	November 1, 2009 – April 30, 2010	$ 144,442		$ 144,442		
9	May 1, 2010 – October 31, 2010	$ 147,927		$ 147,927		
10	November 1, 2010 – April 30, 2011	$ 147,927		$ 147,927		
	TOTAL	$ 1,437,131	$ 837,876	$ 2,275,007		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	CONTRACT I D CODE	PAGE	OF PAGES
		1	38

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
008	See Block 16c	N/A	

NASA JSC WSTF P.O. BOX 20 Attn: Irene Garcia Las Cruces, NM 88004	CODE BH5	7. ADMINISTERED BY Same as Block 6	CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*			
Jacobs Sverdrup Sverdrup Technologies, Inc. 600 Williams Northern Blvd. PO Box 884 Tullahoma, TN 37388		(9)	9A. AMENDMENT OF SOLICITATION NO
		☐	9B. DATED *(SEE ITEM 11)*
		(10)	10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C
CODE	FACILITY CODE	☒	10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers IS NOT extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Financial Management

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

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

IMPORTANT: Contractor IS required to sign this document and return 3 copies to the issuing office.

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

The purpose of this modification is to :
1. Delete DRD 10, "NF533 Cost and Data Reporting" and replace with the attached DRD 10, "NF533 Cost and Data Reporting".
2. Add the requirement for the attached DRD 19, "Task Order/Delivery Order Award Fee Summary Sheet".

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

NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER	
J K Beck V.P. General Manager		~~Valerie A. Marburger~~ Charles A. Riley, Jr.	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*		16B. UNITED STATES OF AMERICA *(Signature Of Contracting Officer)*	16C. DATE SIGNED 11/20/2006

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123)

Reviewed By:

Chief, Cost Accounting, Reports, and Property Branch
Financial Management Division

Date

Concurred By:

Chief Financial Officer

Date

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No.
NF533 Cost and Data Reporting	8/8/2006	010	NNJ06HC01C

4. Use (Define need for, intended use of, and/or anticipated results of data)	5. Category (Check one)
To collect costs and workload data for all contract work	☐ Technical ☒ Administrative ☐ SR&QA

6. References (Optional) None	7. Interrelationships (e.g., with other DRDs): None

8. Preparation Information (Include complete instructions for document preparation).

Scope:

The NASA Form 533 (NF533) reports provide data necessary for the following:

1. Projecting costs and hours to ensure that dollar and labor resources realistically support project and program schedules.
2. Evaluating contractors' actual cost and fee data in relation to negotiated contract value, estimated costs, and budget forecast data.
3. Planning, monitoring, and controlling project and program resources.
4. Accruing cost in NASA's accounting system, providing program and functional management information, and resulting in liabilities reflected on the financial statements

Cost is a financial measurement of resources used in accomplishing a specified purpose, such as performing a service, carrying out an activity, acquiring an asset, or completing a unit of work or project. NASA Procedural Requirements (NPR) 9501.2D entitled "NASA Contractor Financial Management Reporting," or its most current revision, identifies the cost reporting requirements for a contract.

The NF533 reports are the official cost documents used at NASA for cost type, price redetermination, and fixed price incentive contracts. The data contained in the reports must be auditable using Generally Accepted Accounting Principles. Supplemental cost reports submitted in addition to the NF533 must be reconcilable to the NF533.

Uncompensated overtime hours worked should be reported on NF533 reports as a separate line item or in the footnotes.

For contracts, which have multiple schedules, a summary NF533 is required to provide a cumulative from inception cost for the contract, regardless of schedule.

Frequency:
The due dates for the NF533M and NF533Q reports are outlined in Chapter 3 of NPR 9501.2D. The following is a summary of the NF533 due date requirements.

NF533 Report	Due Date
NF533M	Due not later than 10 working days following the close of the contractor's monthly accounting period, or the 15th day of the calendar month, whichever is earlier.
NF533Q	Due not later than the 15th day of the month proceeding the quarter being reported.

The due dates reflect the date the NF533 reports are received by personnel on the distribution list, not the date the reports are generated or mailed by the contractor. It is critical that the NF533 reports are submitted in a timely manner to ensure adequate time for NASA to analyze and record the cost into the NASA accounting system. All data should be provided electronically in Microsoft Excel format. Timeliness shall be determined by the time the electronic submission arrives at the Cost Accounting Office, however, at least one signed hardcopy submission shall still be required.

Distribution:

LF6	Cost Accounting (1 electronic copy and 1 hard copy with original signature)
BH/WSTF	Contracting Officer (1 hard copy with original signature)
LI/WSTF	Budget/Program Analyst (1 hard copy with original signature)
WSTF	COTR

Format:

DRD 010 Mod 8

The NF533M and Q forms are shown in the above Excel file and can be found in **NASA Contractor Financial Management Reporting, NASA Procedures and Guidelines (NPG) 9501.2C or latest revision.**

Details:

Accrual Methodologies

NASA is required by law to maintain accrual accounting, which requires cost to be reported in the period in which benefits are received, without regard to time of payment. This contract shall reflect different methodologies for reporting costs on the NF533 documents. This is due to the distinctly different types of work authorized/contract fee type earned. All costs shall be reported through the NF533, whether fixed price or cost reimbursable in nature.

If required, subcontractor cost should be reported based on the same methodologies as the prime.

A) For Contract Statement of Work:

CPAF WBS

The accrual methodology for these WBS's shall be based on the actual costs incurred to date as the month reported, along with an estimate for the listed future periods. This is more traditional "cost plus" reporting. The information below, extracted from the NPG 9501.2C indicates the appropriate accrual methodologies for specific elements of cost.

Cost Element

Examples of accrual accounting for common cost elements reported on the NF533 follow:

Cost Elements	Definitions
Labor	Reported to NASA as hours are incurred.
Equipment & Materials (commercial off the shelf)	Generally reported to NASA when received and accepted by the contractor.
Manufactured Equipment	Defined as any equipment that is produced to specific requirements that make it useless to anyone else without rework. Cost should be reported to NASA as the equipment is being manufactured. The straight-line method for estimating accrued costs or the use of supplemental information obtained from the vendor are acceptable methods used to calculate the cost accrual amount.

Leases	Reported to NASA using a proration over the life of the lease.
Travel	Reported to NASA as costs are incurred.
Subcontracts	Actual and estimated costs reported by prime contractors shall include subcontractors' incurred costs for the same accounting period. Where subcontract costs are material, they should be separately identified on NF533 reports. The prime contractor shall include in the total cost of each subdivision of work the accrued cost (including fee, if any) of related subcontractor effort. Subcontractors should, therefore, be required to report cost to the prime contractor, using the accrual method of accounting. If the G&A and fee reported by a subcontractor are at the total subcontractor level, these costs must be allocated to specific sub-divisions of work. Data submitted by the subcontractor should be structured similar to the prime contractor's NF533 to enable the prime contractor to properly report to NASA. For Firm Fixed Price subcontracts with a contract value greater than $500,000, the prime contractor is required to document the methodology used to generate the sub-contractor costs reported and provide this information to the Contracting Officer and Center Deputy Chief Financial Officer (Finance).
Unfilled Orders	Reported as the difference between the cumulative cost incurred to date and amounts obligated to suppliers and subcontractors.
Fee	Should be accrued as earned using a consistent and auditable method to determine the amount. For example: an acceptable method would be to use historical data to determine the amount to accrue each month. Fee should be reported on the NF533 following the "Total Cost" line. Award fee must be reported by the following categories: Base Fee, Fee Earned, Interim Fee, Provisional Fee, Potential Additional Fee, and Total Fee. If any of the above fee categories do not pertain, they should not be included in the NF533.
Prompt Payment Discounts	Cumulative cost reported to NASA should be the full incurred cost. The prompt payment discount amount taken should be reported as a separate line item on the NF533 below the cumulative cost amounts for the contract.

B) For Indefinite Delivery/Indefinite Quantity (IDIQ) work:

Firm fixed Price IDIQ

The accrual methodology shall be identified according to the individual delivery order instructions. The cost reported on the NF533 shall be based upon either: 1) cost at completion (therefore, there shall be no cost reported prior to the actual completion and Government acceptance of the job), or 2) as work in process as identified on each order for some types of work, (therefore, getting partial credit for percentage complete prior to 100% completion of task).

In addition to the contract and WBS level reporting required in Exhibits 1 to 3, detailed reporting by delivery order shall be required (Exhibit 4).

CPAF IDIQ

The accrual methodology shall be based on actual cumulative costs incurred to date as of the month reported, along with an estimate for the listed future periods. This is more traditional "cost reimbursable" reporting. Additional direction may be found on the delivery order itself.

In addition to the contract and WBS level reporting required in Exhibits 1 to 3, detailed reporting by order shall be required (Exhibit 4).

Workload Reporting

The contractor shall provide a monthly report with workload performance metrics by WBS. The monthly report shall be due on the same date as the NF533, and shall reflect the same period of performance. Workload metrics shall be provided for each WBS, and shall be subtotaled at a level that is consistent with the cost reporting at the sub-WBS level. A sample format is attached (Exhibit 5).

Baseline NF533

An initial NF533 report is required in the NF533Q format to be used as a baseline for the life of the contract. The initial (baseline) NF533Q report shall be submitted by the contractor within 30 days after authorization to proceed has been granted. The initial report shall reflect the original contract value detailed by negotiated reporting categories and shall be the original contract baseline plan. In addition to the initial (baseline) report, monthly NF533 reporting shall begin no later than 30 days after the incurrence of cost.

Column 7b (planned cost incurred/hours worked for the month) and 7d (cumulative planned cost incurred/hours worked) of the NF533M (Exhibits 1 and 2) represent the negotiated baseline plan for the contract. There may not be a relationship between the estimates provided in columns 8 of the NF533M to columns 7b and 7d. Columns 7b and 7d represent the legally binding contract negotiated baseline plan plus all authorized changes.

Short and long-term cost estimates, which include all data entered in columns 8 and 9a on the NF533M and NF533Q reports, shall be based on the most current and reliable information available. For Exhibit 3, the annual funding limit (Column 8e) shall reflect the results of the annual budget and content planning process and any subsequent changes throughout the fiscal year.

Prior period cost adjustments should be reported in column 7a and 7c of NF533M and column 7a of the NF533Q with a footnote discussing the reasons for and amounts of the adjustments.

Monthly NF533 reporting is no longer required once the contract is physically complete, provided the final cost report includes actual cost only (no estimates or forecasts). The contractor must continue to submit monthly NF533 reports as long as estimates for the following period are included. If the final cost of a contract changes after the submission of the "final" contractor cost report, the contractor must submit a revised NF533 report in the month the cost change is recognized.

Electronic NF533 Requirement

In addition to submitting the NF533M or NF533Q in a hardcopy and electronic format, the contractor, upon request, shall submit the NF533 electronically in a flat file by the same due date as the hardcopy. The data shall be submitted via email using the Government prescribed flat file

format (see attached Agency Defined File Format for an example of the layout details) and shall include the following header information from the hardcopy.

Data Element	Description
Contract Number	NASA assigned contract number
Modification Number	Latest definitive Modification Number
Accrual Date	Date the data was generated for
Report Period End Date	Period ending date of the NF533
Operating Days	Number of operating days for the current NF533
Date Received/Submitted	Date the report is submitted
CCR Format	Monthly (NF533M) or Quarterly (NF533Q)
Cost Unit of Measure	Unit of measure used to report cost on the NF533 report
HR/WYE Unit of Measure	Unit of measure used to report Hours/Work Year Equivalents (WYEs) on the NF533 report
Authorized Contractor Representative	Name of Contractor Approving Officer
Authorized Contractor Representative Date Signed	Date the NF533 is approved and signed by the authorized Contractor Representative
Monthly Grand Total Cost Incurred (7a)	Grand Total Actual Monthly cost for the prior month (column 7a on the NF533)
Monthly Grand Total HR/WYE (7a)	Grand Total Actual monthly hours/WYEs for the prior month (column 7a on the NF533)
Monthly Grand Total Cost Planned (7b)	Prior month planned cost (column 7b on the NF533)
Grand Total Cost Incurred ITD (7c)	Grand total contract cost from Inception to Date (ITD) (column 7c on the NF533)
Grand Total Planned Cost (7d)	Grand total planned contract cost (column 7d on the NF533)
Grand Total Estimated Cost (8a)	Grand total current month cost estimate (column 8a on the NF533)
Grand Total Estimated HR/WYE (8a)	Grand total current month HR/WYE estimate (column 8a on the NF533)
Grand Total Next Month Estimated Cost (8b)	Grand total next month cost estimate (column 8b on the NF533)
Grand Total Balance of Contract (8c)	Contract Balance for the remaining estimate to complete (column 8c on the NF533)
Grand Total Contractor Estimate (9a)	Contractor estimate to complete entire scope of contract (column 9a on the NF533)
Grand Total Contract Value (9b)	Contractor distribution of contract value by the reporting categories (column 9b on the NF533)
Grand Total Unfilled Orders Outstanding (10)	Unfilled order outstanding at the end of the reporting period (column 10 on the NF533)

The flat file will also contain detail information for each Reporting Category (RC). A Reporting Category correlates to a task order, delivery order, or Work Breakdown Structure (WBS) and is the level at which cost is reported. Each RC can have Sub-Reporting Category line items (detailed cost elements) that add up to a RC. **The Contractor is required to coordinate with the NASA Resource Analyst assigned to the contract in order to establish and maintain the Reporting Categories the contractor shall use to comply with this data requirement.** The chart below describes the data elements to be included in this section of the flat file (see attached Agency Defined File Format for specific layout details).

Data Element Name	Description
Reporting Category (RC)	Task, Delivery Order, Work Breakdown Structure
Cost Incurred for Month (7a)	Prior month actual cost incurred for each RC (column 7a on NF533)
HR/WYE Incurred for Month (7a)	Prior month actual HR/WYE incurred for each RC (column 7a on NF533)
Contract prior month planned cost (7b)	Planned cost for prior month for each RC (column 7b on NF533)
Contract ITD cost (7c)	Contract ITD cost for each RC (column 7c on NF533)
Contract planned ITD cost (7d)	Contract planned ITD cost for each RC (column 7d on NF533)
Current month estimated cost (8a)	Cost estimate for the current month for each RC (column 8a on NF533)
Current month estimated HR/WYE (8a)	HR/WYE estimate for the current month for each RC (column 8a on NF533)
Next month estimated cost (8b)	Estimated cost for next month for each RC (column 8b on NF533)
Balance of Contract (8c)	Balance of contract for the remaining estimate to complete for each RC (column 8c on NF533)
Contractor Estimate (9a)	Contractor estimate for the total estimate to complete entire scope of contract for each RC (column 9a on NF533)
Contract Value (9b)	Contract value based upon contract modifications for each RC (column 9b on NF533)
Unfilled orders outstanding (10)	Unfilled orders outstanding at the end of the reporting period for each RC (column 10 on NF533)
Reporting Category level	Used by NASA's accounting system to determine the RC level
Reporting Category Identifier	Identifies if the RC is a actual Reporting Category or a Sub-Reporting

Category

The flat file shall be saved as a text file with no extension (do not include .txt after the file name) and named in strict accordance with the specific format described in the attached Agency Defined File Format document.

File names must be provided in a specific format. Each file name will begin with the SAP 2 Character center abbreviation listed below. The contract number and date will be included in the file name as well. Below is a sample file name.

MACFPS001_NAS00-0001_yyyy_mm_dd

SAP 2 Charter Center Abbreviations

Headquarters	HQ	Dryden	DR
Marshall	MA	Goddard	GO
Ames	AM	Stennis	ST
Glenn	GL	Johnson	JO
Langley	LA	Kennedy	KE

<u>References</u>:

****NASA Contractor Financial Management Reporting, NASA Procedures and Guidelines (NPG) 9501.2C.**

Header (Non-Repeating Segment)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	St Pos	EndPos	Len	Formt
HEADER:									
Record Type	Used by eGate to determine record type	'HD' for Header	Required	Required	RECORD_TYPE	1	2	2	CHAR
Contract Number	Contract Number (1b)	Header field—submitted with CONTRACTOR data or defaulted by interface or extension	Required	Required	CONTRACT_NUMBER	3	12	10	CHAR
	Latest definitive Modification Number(CR8197)				MOD_NUMBER	13	18	6	CHAR
Accrual Date	Date the data was generated for. Used by SAP as part of Oracle table key	Accrual Date. MM01YYYY, where MM is the Accrual Month and YYYY is the fiscal year	Required	Required	ACCRUAL_DATE	19	26	8	DATE MM01YYYY
Report Period End Date	Report Period End Date is a date(2)	Header field—submitted with CONTRACTOR data or defaulted by interface or extension	Required	Required	REP_END_DATE	27	34	8	DATE
Operating Days	Operating days(2).	Header field—submitted with CONTRACTOR data	Required	Optional unless Required by contract	OPER_DAYS	35	40	6	NUMERIC
Date Received	Date Received (1d)	System Date upon which the cost data is loaded into the CCR Extension	Required	Required	DATE_REC	41	48	8	DATE
CCR Format	'M' for Monthly and 'Q' for Quarterly (SIR2047)	Submitted with CONTRACTOR data	Required	Required	CCR_FORMAT	49	49	1	CHAR
Cost Unit of Measure	Cost Unit of Measure (SIR2047)	Submitted with CONTRACTOR data	Required	Required	COST_UOM	50	51	2	CHAR

HR/WYE Unit of Measure	Hour/Work-Year-Equivalent Unit of Measure (SIR2047)	Submitted with CONTRACTOR data	Required	Required	HR_WYE_UOM	52	53	2	CHAR
	Authorized Contractor Representative – Name of Contractor Approving Officer (CR 8197)				AUTH_SIGNATURE	54	78	25	CHAR
	Authorized Contractor Representative Date Signed – Date CCR is approved/signed by authorized contractor representative(CR 8197)				AUTH_SIGNATURE_DATE	79	86	8	DATE MMDDYYYY
Grand Total Cost Incurred Month (7a)	The Grand Total Contract Prior Month Actual Dollars Column 7a reports actual costs for the prior month.	Submitted with CONTRACTOR data	Required.	Optional. Only required if lower detailed line item data is submitted in monthly batch file.	GT_COST_INCUR_MONTH	87	99	13	CURRENCY(2)
Grand Total HR/WYE (7a)	The Grand Total Contract Prior Month Actual Hours Column 7a reports actual HR or WYE for the prior month.	Submitted with CONTRACTOR data	Required if detailed line item data is submitted in monthly batch file.	Required if detailed line item data is submitted in monthly batch file.	GT_HRWYE_PRIOR_MONTH	100	109	10	NUMERIC(1)
	The Grand Total Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month. (CR8197)				GT_COST_PLANNED_MONTH	110	122	13	CURRENCY (2)

Grand Total Cost Incurred ITD (7c)	The Grand Total Contract Cost Dollars Column 7c which represents Contract Cost Inception to Date	Submitted with CONTRACTOR data	Required. Does not require detailed line item data if provided from Cost Incurred Month (7a)	Required if detailed line item data is provided for this column	GT_ITD_COST	123	135	13	CURRENCY (2)
	Grand Total Cotract Planned Cost Dollars Column (7d) which represents Planned Contract Cost Inception to Date(CR 8197)				GT_COST_PLANNED_ITD	136	148	13	CURRENCY (2)
Grand Total Estimated Cost (8a)	The Grand Total Contract Estimated Cost for first upcoming month, or Current Month Estimate for cost.	Submitted with CONTRACTOR data	Required	Required if detailed line item data is provided for this column	GT_EST_COST	149	161	13	CURRENCY (2)
Grand Total HR/WYE (8a)	The Grand Total Contract Estimated Hours for first upcoming month, or Current Month Estimate for HR/WYE.	Submitted with CONTRACTOR data	Required if detailed line item data is provided for this column	Required if detailed line item data is provided for this column	GT_HRWYE_FIRST_MONTH	162	171	10	NUMERIC (1)
Grand Total Next Month Estimated Cost (8b)	The Grand Total Contract Estimated Cost for second upcoming month or Next Month Estimate for cost.	Submitted with CONTRACTOR data	Required if detailed line item data is provided for this column	Required if detailed line item data is provided for this column	GT_NEXT_MONTH_EST	172	184	13	CURRENCY (2)

	Grand Total Balance of Contract for the remaining estimate to complete (CR 8197)				GT_BALANCE_CONTRACT	185	197	13	CURRENCY (2)
	Grand Total Contractor Estimate for the total estimate to complete entire scope of contract (CR 8197)				GT_BALANCE_CONTRACTOR_ESTIMATE	198	210	13	CURRENCY (2)
	Grand Total Contract Value based upon Contract Modifications (CR 8197)				GT_CONTRACT_VALUE	211	223	13	CURRENCY (2)
	Grand Total Unfilled Orders Outstanding at end of reporting period (CR 8197)				ST_UNFILLED ORDERS	224	236	13	CURRENCY (2)

Example File Format

Detail (Repeating Segment)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	St Pos	End Pos	Len	Format
CCR DETAIL LINE ITEMS:									
Record Type	'DM' for Monthly column 7a Detail; 'DQ' for ITD Column 7c Detail	"RD" for Detail	Required	Required	RECORD_TYPE	1	2	2	CHAR
Reporting Category	Reporting Category (6)	Line item field—submitted with CONTRACTOR data	Required	Required	SERV_ORD_CAT	3	26	24	CHAR
Cost Incurred Month (7a)	Prior Month incurred costs (ACTUALS) for given category.	Line item field—submitted with CONTRACTOR data	Required if detailed line item data is not provided from Cost Incurred Month (7c)	Determined by contract requirement-data from Column 7a, 7c or 8a	COST_INCUR_MONTH	27	39	13	CURRENCY (2)
HR/WYE Incurred Month (7a)	Prior month incurred hours worked [Actuals] for given category..	Line item field—submitted with CONTRACTOR data	Optional unless Required by contract for WYE calculation	Optional unless Required by contract for WYE calculation	HRWYE_INCUR_MONTH	40	49	10	NUMERIC (1)
	Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month (CR 8197)				COST_PLANNED_MONTH	50	62	13	CURRENCY (2)
	Contract Cost Dollars Column (7c) which represents Contract Cost Inception to Date (CR 8197)				CUR_COST_INCUR_ITD	63	75	13	CURRENCY (2)
	Contract Planned Cost Dollars Column (7d) which represents Planned Contract Cost Inception to Date (CR 8197)				COST_PLANNED_ITD	76	88	13	CURRENCY (2)
Current Month Estimated Cost (8a)	Estimated costs for first upcoming month for given category.	Line item field—submitted with CONTRACTOR data	Required.	Determined by contract requirement-data from Column 7a, 7c or 8a	CUR_MONTH_EC	89	101	13	CURRENCY (2)

HR/WYE Current Month Estimate (8a)	Estimated hours for first upcoming month for given category. Will only be needed if labor hours are required to be submitted electronically per contract.	Line item field—submitted with CONTRACTOR data	Optional unless Required by contract for WYE calculation	Optional unless Required by contract for WYE calculation	HRWYE_CUR_MONTH_EST	102	111	10	NUMERIC (1)
Next Month Estimated Cost (8b)	Estimated costs for second upcoming month for given category.	Line item field—submitted with CONTRACTOR data	Required unless not part of Contract scope	Required unless not part of Contract scope	NEXT_MONTH_EC	112	124	13	CURRENCY (2)
	Balance of Contract for the remaining estimate to complete (8c) (CR 8197)				BALANCE_CONTRACT	125	137	13	CURRENCY (2)
	Contractor Estimate for the total estimate to complete entire scope of contract (9a) (CR 8197)				CONTRACTOR_ESTIMATE	138	150	13	CURRENCY (2)
	Contract Value based upon Contract Modifications (CR 8197)				CONTRACT_VALUE	151	163	13	CURRENCY (2)
	Unfilled Orders Outstanding at end of reporting period (CR 8197)				UNFILLED ORDERS	164	176	13	CURRENCY (2)
	Used by SAP to determine Reporting Category Level (1.1.2.2.1) (CR 8197)				REPORTING_LEVEL	177	206	30	CHAR
	Fill in an "X" if record is a Reporting Category. Otherwise, leave blank for Sub-Reporting Category Line Items and Element of Cost detail records. This field is used by SAP to determine if the record is a Reporting Category. (CR 8197)				REPORTING_CAT_INDICATOR	207	207	1	CHAR

Example File Format

Sub-Reporting Category Line Items – Repeating Segment

Field Name	Start Pos	End Pos	Length	Format	Variable Repetition (?,*,+,n-n)	Description
SUB_RECORD_TYPE	1	2	2	CHAR		'SM' for Monthly column 7a Detail; 'SQ' for ITD column Detail
SUB_REP_CAT	3	26	24	CHAR		Reporting Category
SUB_COST_INCUR_MONTH	27	39	13	CURRENCY (2)		Prior month incurred costs (Actuals) for given category.
SUB_HRWYE_INCUR_MONTH	40	49	10	NUMERIC (1)		Prior month incurred hours worked (Actuals) for given category.
SUB_COST_PLANNED_MONTH	50	62	13	CURRENCY (2)		Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month.
SUB_CUR_COST_INCUR_ITD	63	75	13	CURRENCY (2)		Contract Cost Dollars Column (7c) which represents Contract Cost Inception to Date.
SUB_COST_PLANNED_ITD	76	88	13	CURRENCY (2)		Contract Planned Cost Dollars Column (7d) which represents Planned Contract Cost Inception to Date.
SUB_CUR_MONTH_EC	89	101	13	CURRENCY (2)		Estimated costs for first upcoming month for given category (8a).
SUB_HRWYE_CUR_MONTH_EST	102	111	10	NUMERIC (1)		Estimated hours for first upcoming month for given category. Will only be needed if labor hours are required to be submitted electronically per contract (8a).
SUB_NEXT_MONTH_EC	112	124	13	CURRENCY (2)		Estimated costs for second upcoming month for given category (8b).
SUB_BALANCE_CONTRACT	125	137	13	CURRENCY (2)		Balance of Contract for the remaining estimate to complete (8c).
SUB_CONTRACTOR_ESTIMATE	138	150	13	CURRENCY (2)		Contractor Estimate for the total estimate to complete entire scope of contract (9a).
SUB_CONTRACT_VALUE	151	163	13	CURRENCY (2)		Contract Value based upon Contract Modifications (9b).
SUB_UNFILLED_ORDERS	164	176	13	CURRENCY (2)		Unfilled Orders Outstanding at end of reporting period.
REPORTING_LEVEL	177	206	30	CHAR		Used by SAP to determine Reporting Category Level (1.1.2.2.1) (CR 8197).
REPORTING_CAT_INDICATOR	207	207	1	CHAR		Fill in an "X" if record is a Reporting Category. Otherwise, leave Blank for Sub-Reporting Category Line Items and Element of Cost detail records. This field is used by SAP to determine if the record is a Reporting Category. (CR 8197)

Example File Format

533 Agency FILE RECORD LAYOUT (*Element of Cost Detail – Repeating Segment (CR8197)*)

Field Name	Start Pos	End Pos	Length	Format	Variable Repetition (?,*,+,n-n)	Description
RECORD_TYPE	1	2	2	CHAR		'EM' for Monthly column 7a Detail; 'EQ' for ITD column Detail
EOC_REP_CAT	3	26	24	CHAR		Reporting Category
EOC_COST_INCUR_MONTH	27	39	13	CURRENCY (2)		Prior month incurred costs (Actuals) for given category.
EOC_HRWYE_INCUR_MONTH	40	49	10	NUMERIC (1)		Prior month incurred hours worked (Actuals) for given category.
EOC_COST_PLANNED_MONTH	50	62	13	CURRENCY (2)		Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month.
EOC_CUR_COST_INCUR_ITD	63	75	13	CURRENCY (2)		Contract Cost Dollars Column (7c) which represents Contract Cost Inception to Date.
EOC_COST_PLANNED_ITD	76	88	13	CURRENCY (2)		Contract Planned Cost Dollars Column (7d) which represents Planned Contract Cost Inception to Date.
EOC_CUR_MONTH_EC	89	101	13	CURRENCY (2)		Estimated costs for first upcoming month for given category (8a).
EOC_HRWYE_CUR_MONTH_EST	102	111	10	NUMERIC (1)		Estimated hours for first upcoming month for given category. Will only be needed if labor hours are required to be submitted electronically per contract (8a).
EOC_NEXT_MONTH_EC	112	124	13	CURRENCY (2)		Estimated costs for second upcoming month for given category (8b).
EOC_BALANCE_CONTRACT	125	137	13	CURRENCY (2)		Balance of Contract for the remaining estimate to complete (8c).
EOC_CONTRACTOR_ESTIMATE	138	150	13	CURRENCY (2)		Contractor Estimate for the total estimate to complete entire scope of contract (9a).
EOC_CONTRACT_VALUE	151	163	13	CURRENCY (2)		Contract Value based upon Contract Modifications (9b).
EOC_UNFILLED_ORDERS	164	176	13	CURRENCY (2)		Unfilled Orders Outstanding at end of reporting period.
REPORTING_LEVEL	177	206	30	CHAR		Used by SAP to determine Reporting Category Level (1.1.2.2.1) (CR 8197).
REPORTING_CAT_INDICATOR	207	207	1	CHAR		Fill in an "X" if record is a Reporting Category. Otherwise, leave Blank for Sub-Reporting Category Line Items and Element of Cost detail records. This field is used by SAP to determine if the record is a Reporting Category. (CR 8197)

Example File Format

Trailer (provides the number of header & detail records sent from the contractor/vendor/center in order to verify the receipt of complete data after transmission)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	Start Pos	End Pos	Length	Format
TRAILER:									
Record Type	Used by eGate to determine record type	"TL" for Trailer	Required	Required	RECORD_TYPE	1	2	2	CHAR
Record Count	Count of the number of Detail records sent to process (Detail Only)	Trailer field submitted with CONTRACTOR data	Required	Requried	RECORD_COUNT	3	9	7	NUMERIC
	Value of spaces				FILLER	10	207	198	CHAR

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE 1 OF PAGES 3

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
009	See Block 16c	4200170263/4200163829	

6. ISSUED BY CODE	7. ADMINISTERED BY CODE
BH5	
NASA JSC WSTF P.O. BOX 20 Attn: Irene Garcia Las Cruces, NM 88004	Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*			
Jacobs Sverdrup Sverdrup Technologies, Inc. 600 Williams Northern Blvd. PO Box 884 Tullahoma, TN 37388		(9) ☐	9A. AMENDMENT OF SOLICITATION NO NO 9B. DATED *(SEE ITEM 11)*
		(10) ☒	10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C 10B. DATED *(SEE ITEM 13)* 2/28/06
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers IS NOT extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Decrease by: $5,844,000 *Financial Management*

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

☐	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
☑	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). FAR 52.232-22 Limitation of Funds
☐	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
☐	D. OTHER *(Specify type of modification and authority)*

IMPORTANT: Contractor IS NOT required to sign this document and return copies to the issuing office.

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

The purpose of this modification is to obligate $5,844,179 (4200170263) and deobligate $179 (4200163829) for a net increase of $5,844,000, which funds the contract through December 8, 2006.
a. Article B.4 - CONTRACT FUNDING, is deleted in its entirety and the attached Article B.4 page B-12-3 is substituted.
b. Attachment J-13 - RECAPITULIZATION OF FUNDING, is hereby deleted in its entirety and the attached J-13 page J-13-2 is substituted.

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

NAME AND TITLE OF SIGNER *(Type or print)*	16A. NAME AND TITLE OF CONTRACTING OFFICER Michael B. Lalla	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	16B. UNITED STATES OF AMERICA *(Signature Of Contracting Officer)*	16C. DATE SIGNED 8/25/06

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: August 25, 2006, through December 8, 2006.

(b) Recapitulation of Funding: See J-13 (Recapitulation of Funding).

[END OF SECTION]

J-13 RECAPITULATION OF FUNDING

(MODIFICATION 9)

		Prior Obligation		This Action		Cumulative Obligation
CF (CR) Cost	$	1,461,677	$	811,667	$	2,273,344
Phase-In (FP) Cost	$	370,344	$	-	$	370,344
CR DO's (T1-) Cost	$	8,282,840	$	4,557,248	$	12,840,088
FFP DO's (D1-) Cost	$	-	$	-	$	-
Cost Subtotal	$	10,114,861	$	5,368,914	$	15,483,775
CF (CR) Fee	$	121,379	$	64,933	$	186,312
CR DO's (T1-) Fee	$	687,810	$	410,152	$	1,097,962
FFP DO's (D1-) Fee	$	-	$	-	$	-
Fee Subtotal	$	809,189	$	475,086	$	1,284,275
Cost & Fee Total	$	10,924,050	$	5,844,000	$	16,768,050

PR #	MODIFICATION #		AMOUNT
4200098306	1	$	1,000,000.00
4200157340	2	$	5,600,000.00
	3	$	-
	4	$	-
4200163829	5	$	1,824,050.00
4200167692	6	$	2,521,600
4200163829	6		($21,600.00)
4200170263	9		$5,844,179.00
4200163829	9		($179.00)
		$	16,768,050.00

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT I D CODE	PAGE	OF PAGES
	1	3

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
010	See Block 16c	4200176423	

6. ISSUED BY — CODE BH5

NASA JSC WSTF
P.O. BOX 20
Attn: Irene Garcia
Las Cruces, NM 88004

7. ADMINISTERED BY — CODE

Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE

FACILITY CODE

(9) 9A. AMENDMENT OF SOLICITATION NO NO

9B. DATED *(SEE ITEM 11)*

(10) 10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C

10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers IS NOT extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Increase by: $1,000,000 *Financial Management*

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

- [ ] A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
- [x] B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
  FAR 52.232-22 Limitation of Funds
- [ ] C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- [ ] D. OTHER *(Specify type of modification and authority)*

IMPORTANT: Contractor IS NOT required to sign this document and return copies to the issuing office.

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

The purpose of this modification is to obligate $1,000,000 which funds the contract through December 19, 2006.
a. Article B.4 - CONTRACT FUNDING, is deleted in its entirety and the attached Article B.4 page B-12-3 is substituted.
b. Attachment J-13 - RECAPITULIZATION OF FUNDING, is hereby deleted in its entirety and the attached J-13 page J-13-2 is substituted.

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

NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER Valerie A. Marburger	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*		16B. UNITED STATES OF AMERICA Valerie A Marburger *(Signature Of Contracting Officer)*	16C. DATE SIGNED 9/13/06

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: August 25, 2006, through December 19, 2006.

(b) Recapitulation of Funding: See J-13 (Recapitulation of Funding).

[END OF SECTION]

J-13 RECAPITULATION OF FUNDING

(MODIFICATION 10)

		Prior Obligation		This Action		Cumulative Obligation
CF (CR) Cost	$	2,273,344	$	138,889	$	2,412,233
Phase-In (FP) Cost	$	370,344	$	-	$	370,344
CR DO's (T1-) Cost	$	12,840,088	$	779,817	$	13,619,905
FFP DO's (D1-) Cost	$	-	$	-	$	-
Cost Subtotal	$	15,483,776	$	918,705	$	16,402,481
CF (CR) Fee	$	186,312	$	11,111	$	197,423
CR DO's (T1-) Fee	$	1,097,962	$	70,183	$	1,168,145
FFP DO's (D1-) Fee	$	-	$	-	$	-
Fee Subtotal	$	1,284,274	$	81,295	$	1,365,569
Cost & Fee Total	**$**	**16,768,050**	**$**	**1,000,000**	**$**	**17,768,050**

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	CONTRACT I D CODE	PAGE OF PAGES 1 3

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
011	See Block 16c	4200177885	

6. ISSUED BY CODE	7. ADMINISTERED BY CODE
BH5	
NASA JSC WSTF P.O. BOX 20 Attn: Irene Garcia Las Cruces, NM 88004	Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*			
Jacobs Sverdrup Sverdrup Technologies, Inc. 600 Williams Northern Blvd. PO Box 884 Tullahoma, TN 37388		(9) ☐	9A. AMENDMENT OF SOLICITATION NO NO 9B. DATED *(SEE ITEM 11)*
		(10) ☒	10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C 10B. DATED *(SEE ITEM 13)* 2/28/06
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers IS NOT extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

rease by: $4,057,466.92

Financial Management

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

☐ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

☑ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
FAR 52.232-22 Limitation of Funds

☐ C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

☐ D. OTHER *(Specify type of modification and authority)*

IMPORTANT: Contractor IS NOT required to sign this document and return copies to the issuing office.

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

The purpose of this modification is to obligate $4,057,466.92 which funds the contract through February 2, 2007.
a. Article B.4 - CONTRACT FUNDING, is deleted in its entirety and the attached Article B.4 page B-12-3 is substituted.
b. Attachment J-13 - RECAPITULIZATION OF FUNDING, is hereby deleted in its entirety and the attached J-13 page J-13-2 is substituted.

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*	16A. NAME AND TITLE OF CONTRACTING OFFICER Valerie A. Marburger	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	16B. UNITED STATES OF AMERICA Valerie A Marburger *(Signature Of Contracting Officer)*	16C. DATE SIGNED 9/21/06

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: August 25, 2006, through February 2, 2007.

(b) Recapitulation of Funding: See J-13 (Recapitulation of Funding).

[END OF SECTION]

J-13 RECAPITULATION OF FUNDING

(MODIFICATION 11)

		Prior Obligation		This Action		Cumulative Obligation
CF (CR) Cost	$	2,412,233	$	563,537.07	$	2,975,770.07
Phase-In (FP) Cost	$	370,344	$	-	$	370,344.00
CR TO's (T1-) Cost	$	13,619,905	$	3,164,079.71	$	16,783,984.71
FFP DO's (D1-) Cost	$	-	$	-	$	-
Cost Subtotal	$	16,402,481	$	3,727,616.78	$	20,130,097.78
CF (CR) Fee	$	197,423	$	45,082.97	$	242,505.97
CR TO's (T1-) Fee	$	1,168,145	$	284,767.17	$	1,452,912.17
FFP DO's (D1-) Fee	$	-	$	-	$	-
Fee Subtotal	$	1,365,569	$	329,850.14	$	1,695,419.14
Cost & Fee Total	**$**	**17,768,050**	**$**	**4,057,466.92**	**$**	**21,825,516.92**

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	CONTRACT I D CODE	PAGE 1	OF PAGES 10

2. AMENDMENT/MOD NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO
012	See Block 16c		

6. ISSUED BY CODE	7. ADMINISTERED BY CODE
BH5	
NASA JSC WSTF P.O. BOX 20 Attn: Irene Garcia Las Cruces, NM 88004	Same as Block 6

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, County, State and ZIP Code)*			
Jacobs Sverdrup Sverdrup Technologies, Inc. 600 Williams Northern Blvd. PO Box 884 Tullahoma, TN 37388		(9)	9A. AMENDMENT OF SOLICITATION NO
		☐	9B. DATED *(SEE ITEM 11)*
		(10)	10A. MOD. OF CONTRACT/ORDER No NNJ06HC01C
CODE	FACILITY CODE	☒	10B. DATED *(SEE ITEM 13)* 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers IS NOT extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;
(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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

Financial Management

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

☐ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

☐ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

☐ C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

☑ D. OTHER *(Specify type of modification and authority)*
Mutual Agreement

IMPORTANT: Contractor IS required to sign this document and return 3 copies to the issuing office.

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

Please see Page 2 for changes.

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*	16A. NAME AND TITLE OF CONTRACTING OFFICER
JK Beck V.P. General Manager	Charles A. Riley, Jr.
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
(Signature of person authorized to sign)	*(Signature Of Contracting Officer)*
	16C. DATE SIGNED 11/20/2006

SECTION	CLAUSE	Number of Pages	REMARKS
A TOC			Table of Contents, under Section I, add "I.17 SECURITY CLASSIFICATION REQUIREMENTS".
I.2	52.244-2 SUBCONTRACTS (AUG 1998)	0	The following is added after the "by reference" clause: "Insert "$500,000" for 52.244-2(e)
I.14	1852.204-76 SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION TECHNOLOGY RESOURCES (NOV 2004)	4	Replace existing I.14 in it's entirety and replace with attached I.14
I.17	1852.204-75 SECURITY CLASSIFICATION REQUIREMENTS (SEP 1989)		The following clause is added as I.17:
J-15		4	DD Form 254 is attached as J-15
Total Pages		8	

I.14 SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION TECHNOLOGY RESOURCES 1852.204-76 (NOVEMBER 2004 [(DEVIATION])

(a) The Contractor shall be responsible for information and information technology (IT) security when 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 where 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, 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 and the NASA Security Operations Center.

(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 all individuals who perform tasks as a system administrator, or have authority to perform tasks normally performed by a system administrator, 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, network services, files storage, and/or web services, to someone else 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) 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) The Contractor shall insert this clause, including this paragraph (f), in all subcontracts when the subcontractor is required to –

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

(2) Use information systems to generate, store, 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)

I.17 Security Classification Requirements (NFS 1852.204-75) (SEP 1989)

Performance under this contract will involve access to and/or generation of classified information, work in a security area, or both, up to the level of SECRET. See Federal Acquisition Regulation clause 52.204-2 in this contract and DD Form 254, Contract Security Classification Specification, Attachment J-15.

(End of clause)

PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

ATTACHMENT J-15 – DD 254

J-17 DD Form 254

DEPARTMENT OF DEFENSE
CONTRACT SECURITY CLASSIFICATION SPECIFICATION

(The requirements of the DoD Industrial Security Manual apply to all aspects of this effort)

1. CLEARANCE AND SAFEGUARDING

a. FACILITY CLEARANCE REQUIRED
☒ SECRET

b. LEVEL OF SAFEGUARDING REQUIRED
☒ SECRET

2. THIS SPECIFICATION IS FOR: *(X and complete as applicable)*

☒	a. PRIME CONTRACT NUMBER	NNJ06HC01C
☐	b. SUBCONTRACT NUMBER	
	c. SOLICITATION OR OTHER NUMBER	Due Date *(YYMMDD)*

3. THIS SPECIFICATION IS: *(X and complete as applicable)*

☒	a. ORIGINAL *(Complete date in all cases)*		Date *(YYMMDD)* 06012006
☐	b. REVISED *(Supersedes all previous specs)*	Revision No.	Date *(YYMMDD)*
☐	c. FINAL *(Complete item 5 in all cases)*		Date *(YYMMDD)*

4. IS THIS A FOLLOW-ON CONTRACT? [X] YES [ ] NO. If Yes complete the following

Classified material received or generated under NAS9-99100 *(Preceding Contract Number)* is transferred to this follow-on contract

5. IS THIS A FINAL DD FORM 254? [ ] YES [☒] NO. If Yes complete the following

In response to the contractor's request dated N/A, retention of the identified classified material is authorized for the period of N/A.

6. CONTRACTOR *(Include Commercial and Government Entity (CAGE) Code)*

a. NAME, ADDRESS, AND ZIP CODE	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*
Jacobs Sverdrup 600 William Northern Blvd. Tullahoma, TN 37388	07486	DSS-Defense Security Service Bldg 3216 Little John Drive Huntsville, AL 35898

7. SUBCONTRACTOR

a. NAME, ADDRESS, AND ZIP CODE	b. CAGE CODE	c. COGNIZANT SECURITY OFFICES *(Name, Address, and Zip Code)*

8. ACTUAL PERFORMANCE

a. LOCATION	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*
White Sands Test Facility (WSTF) P.O. Box 20 Las Cruces, NM 88004	N/A	N/A

9. GENERAL IDENTIFICATION OF THIS PROCUREMENT

Test and Evaluation Contract

10. THIS CONTRACT WILL REQUIRE ACCESS TO:	YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES	NO
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION	X		a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY		X
b. RESTRICTED DATA		X	b. RECEIVE CLASSIFIED DOCUMENTS ONLY		X
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		X	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		X
d. FORMERLY RESTRICTED DATA:		X	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		X
e. INTELLIGENCE INFORMATION:			e. PERFORM SERVICES ONLY		X
(1) Sensitive Compartmented Information (SCI)		X	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		X
(2) Non-SCI		X	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		X
f. SPECIAL ACCESS INFORMATION		X	h. REQUIRE A COMSEC ACCOUNT		X
g. NATO INFORMATION		X	i. HAVE A TEMPEST REQUIREMENT		X
h. FOREIGN GOVERNMENT INFORMATION		X	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		X
i. LIMITED DISSEMINATION INFORMATION		X	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		X
j. FOR OFFICIAL USE ONLY INFORMATION	X		l. OTHER *(Specify)*. SEE BLOCK 13 REMARKS		
k. OTHER *Specify)*		X			

12. PUBLIC RELEASE. Any information *(classified or unclassified)* pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public release shall be submitted for approval prior to release

☒ Direct ☐ Through *(Specify)*:

NASA/Johnson Space Center AP/Public Affairs Office Houston, TX 77058-3696

To the Office of Public Affairs, National Aeronautics and Space Administration, Washington, DC 20546, for review.

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. *(Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any document/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.*

Performance of this contract will not involve the receipt, generation, and storage of classified information at the contractor's facility; therefore, classified material cannot be sent to the contractor under this contract. Access to classified information/areas will occur only at the user agency WSTF. Only U.S. citizens granted a final personnel security clearances are eligible for access to classified material. The contractor must meet and comply with the facility clearance requirements for SECRET and the industrial security requirements for access to classified information at the SECRET level in accordance with the National Industrial Security Program Operating Manual, DOD 5220.22-M, dated February 28, 2006 and other NASA/JSC security procedures and guidelines.

The place of performance will be at WSTF location, and if necessary, other locations where the requirement is covered by the obligations specified in Section C of the basic contract document. The period of performance is from 05/01/2006, through 04/30/2009

Questions or request concerning clarification or interpretation regarding security requirements shall be directed to the NASA/JSC Industrial Security Specialist at 281-483-6700.

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. *(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)* ☒ Yes ☐ No

(a) National Industrial Security Program Operating Manual, DOD 5220.22-M, dated February 28, 2006; (b) NASA Requirements, JSC Security Handbooks, Manuals, Regulations, Instructions, and Directives (current editions) for JSC, as well as any other applicable policies and procedures as identified by NASA.

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. *(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.* ☐ Yes ☒ No

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL	b. TITLE	c. TELEPHONE *(Include Area Code)*
Wayne Sings	Security Specialist	281-483-6700

d. ADDRESS *(Include ZIP Code)*
2101 NASA Parkway
Houston, Texas

e. SIGNATURE
Wayne Sings

17. REQUIRED DISTRIBUTION

- X a. CONTRACTOR
- ☐ b. SUBCONTRACTOR
- X c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
- ☐ d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
- ☐ e. ADMINISTRATIVE CONTRACTING OFFICER
- ☐ f. OTHERS AS NECESSARY

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OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 | 2

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
013	See Block 16c	N/A	

6. ISSUED BY CODE JRG	7. ADMINISTERED BY (If other than Item 6) CODE
NASA JSC White Sands Test Facility Attn: Irene Garcia/BH5 P.O. Box 20 Las Cruces, New Mexico 88004	SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)
Jacobs Sverdrup, Inc.
Sverdrup Technologies, Inc.
Attn: Keith Beck
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE 07486	FACILITY CODE
9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO. X NNJ06HC01C	10B. DATED (SEE ITEM 13) 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

ACCOUNTING AND APPROPRIATION DATA (If required)
Increase by: $200,994.00

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

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

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

14. description of amendment/modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

a. The purpose of this modification is to update Section J.1, "Award Fee Evaluation Plan," Appendix 3, "Award Fee Distribution." Appendix 3, "Award Fee Distribution," is hereby deleted in its entirety and replaced with the attached page.

The award fee pool for award fee period one is hereby increased from $980,194.00 by $200,994.00 to $1,181,188.00

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Charles A. Riley, Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 12/01/2006

APPENDIX 3 – AWARD FEE DISTRIBUTION

Award Fee Period	Evaluation Periods	Amount of CF Award Fee Available	Amount of ID/IQ Award Fee Available	Total Award Fee Available	Total Award Fee Earned	Mods
1	March 1, 2006 – October 31, 2006	$142,318	$1,038,870	$1,181,188		013
2	November 1, 2006 – April 30, 2007	$142,318		$142,318		
3	May 1, 2007 – October 31, 2007	$143,358		$143,358		
4	November 1, 2007 – April 30, 2008	$143,358		$143,358		
5	May 1, 2008 – October 31, 2008	$140,521		$140,521		
6	November 1, 2008 – April 30, 2009	$140,521		$140,521		
7	May 1, 2009 – October 31, 2009	$144,442		$144,442		
8	November 1, 2009 – April 30, 2010	$144,442		$144,442		
9	May 1, 2010 – October 31, 2010	$147,927		$147,927		
10	November 1, 2010 – April 30, 2011	$147,927		$147,927		
	TOTAL	$1,437,131	$1,038,870	$2,476,002		

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT CODE	PAGE OF PAGES 1 / 1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
014	See Block 16c	N/A	

6. ISSUED BY CODE JRG

NASA JSC White Sands Test Facility
Attn: Irene Garcia/BH5
P.O. Box 20
Las Cruces, New Mexico 88004

7. ADMINISTERED BY (If other than Item 6) CODE JRA

SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

Cage Code 4E1M8 FACILITY CODE

(x)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED (SEE ITEM 11)
X	10A. MODIFICATION OF CONTRACT/ORDER NO. NNJ06HC01C	10B. DATED (SEE ITEM 13) 2/28/06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	d. OTHER (Specify type of modification and authority) Payment of Award Fee - NFS 1852.216-76

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

14. description of amendment/modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to recognize award fee earned for the first award fee evaluation period: March 1, 2006, to October 31, 2006: PAYMENT OF AWARD FEE

Award Fee Available for Period:	$1,181,188.00
Award Fee Earned:	$1,015,822.00
Less Provisional Fee Payments:	$679,034.80
Total to be Paid:	$336,788.20

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Charles A. Riley, Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	5C DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 12/12/2006

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 / 3

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
015	See Block 16c	4200182021	

6. ISSUED BY CODE JRA

NASA JSC White Sands Test Facility
Attn: Joshua Soto/BH5
P.O. Box 20
Las Cruces, New Mexico 88004

7. ADMINISTERED BY (If other than Item 6) CODE JRG

SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(x)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED (SEE ITEM 11)
X	10A. MODIFICATION OF CONTRACT/ORDER NO. NNJ06HC01C	10B. DATED (SEE ITEM 13) 2/28/2006

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
Increase by: $4,235,611.00.

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

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). Limitation of Funds 52.232-22
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	d. OTHER (Specify type of modification and authority)

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

14. description of amendment/modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to obligate $4,235,611.00 which funds the contract through March 21, 2007.

a. Article B.4 - CONTRACT FUNDING, is deleted in its entirety and the attached Article B.4 page B-12-8 is substituted.

b. Attachment J-13 - RECAPITULIZATION OF FUNDING, is hereby deleted in its entirety and the attached page J-13.8 is substituted.

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Charles A Riley, Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 12/21/2006

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: February 2, 2007, through March 21, 2007.

(b) Recapitulation of Funding: See J-13 (Recapitulation of Funding).

[END OF SECTION]

	Prior Obligations	This Action	Cumulative Obligation
CF (CR) Cost	$ 2,975,770.07	$ 588,279.31	$ 3,564,049.38
Phase-In (FP) Cost	$ 370,344.00	$ -	$ 370,344.00
CR TO's Cost	$ 16,783,984.71	$ 3,302,999.40	$ 20,086,984.11
FFP DO's Cost	$ -	$ -	$ -
Cost Subtotal	$ 20,130,098.78	$ 3,891,278.71	$ 24,021,377.49
CF (CR) Fee	$ 242,505.97	$ 47,062.34	$ 289,568.31
CR TO's Fee	$ 1,452,912.17	$ 297,269.95	$ 1,750,182.12
FFP DO's Fee	$ -	$ -	$ -
Fee Subtotal	$ 1,695,418.14	$ 344,332.29	$ 2,039,750.43
Cost & Fee Total	**$ 21,825,516.92**	**$ 4,235,611.00**	**$ 26,061,127.92**

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 / 3

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
016	See Block 16c	N/A	

6. ISSUED BY CODE JRA

NASA JSC White Sands Test Facility
Attn: Joshua Soto/BH5
P.O. Box 20
Las Cruces, New Mexico 88004

7. ADMINISTERED BY (If other than Item 6) CODE JRG

SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(x)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED (SEE ITEM 11)
X	10A. MODIFICATION OF CONTRACT/ORDER NO. NNJ06HC01C	10B. DATED (SEE ITEM 13) 2/28/2006

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offor submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

. ACCOUNTING AND APPROPRIATION DATA (If required)
ecrease by: ($2,948,385.00)

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

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). Limitation of Funds 52.232-22
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	d. OTHER (Specify type of modification and authority)

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

14. description of amendment/modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to deobligate ($2,948,385.00) which funds the contract through February 16, 2007.

a. Article B.4 - CONTRACT FUNDING, is deleted in its entirety and the attached Article B.4 page B-12-9 is substituted.

b. Attachment J-13 - RECAPITULIZATION OF FUNDING, is hereby deleted in its entirety and the attached page J-13.9 is substituted.

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Charles A Riley, Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 12/21/2006

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: February 2, 2007, through February 16, 2007.

(b) Recapitulation of Funding: See J-13 (Recapitulation of Funding).

[END OF SECTION]

	Prior Obligations	This Action	Cumulative Obligation
CF (CR) Cost	$ 3,564,049.38	$ (682,496.53)	$ 2,881,552.85
Phase-In (FP) Cost	$ 370,344.00	$ -	$ 370,344.00
CR TO's Cost	$ 20,086,984.11	$ (2,028,705.28)	$ 18,058,278.84
FFP DO's Cost	$ -	$ -	$ -
Cost Subtotal	$ 24,021,377.49	$ (2,711,201.80)	$ 21,310,175.69
CF (CR) Fee	$ 289,568.31	$ (54,599.72)	$ 234,968.59
CR TO's Fee	$ 1,750,182.12	$ (182,583.47)	$ 1,567,598.64
FFP DO's Fee	$ -	$ -	$ -
Fee Subtotal	$ 2,039,750.43	$ (237,183.20)	$ 1,802,567.23
Cost & Fee Total	**$ 26,061,127.92**	**$ (2,948,385.00)**	**$ 23,112,742.92**

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 | 3

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
017	See Block 16c	N/A	

6. ISSUED BY CODE JRA

NASA JSC White Sands Test Facility
Attn: Irene Garcia/BH5
P.O. Box 20
Las Cruces, New Mexico 88004

7. ADMINISTERED BY (If other than Item 6) CODE JRG

SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(x)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED (SEE ITEM 11)
X	10A. MODIFICATION OF CONTRACT/ORDER NO. **NNJ06HC01C**	10B. DATED (SEE ITEM 13) **2/28/2006**

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
N/A

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

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

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

14. description of amendment/modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to modify Clause I.15 OMBUDSMAN (NFS 1852.215-84) (Oct 2003) (ALT I) (JUN 2000):

Effective Tuesday, January 2, 2007 Lucy V. Kranz has replaced Randy Gish as the JSC Ombudsman for Acquisition.

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) **Charles A Riley, Jr., Contracting Officer**	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 01/08/2007

he following change requires the deletion of a section of the contract in its entirety and replacement of a ,ection with the page enclosed in this modification.

SECTION	CLAUSE	REMARKS
I	I.15	Lucy V. Kranz has replaced Randy Gish as the JSC Ombudsman for Acquisition. Therefore, I.15 is replaced in its entirety.

I.15 OMBUDSMAN (NFS 1852.215-84) (OCT 2003) (ALT I) (JUN 2000)

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

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

Lucy V. Kranz
2101 NASA Parkway
Houston, TX 77058
Lucy.v.kranz@nasa.gov
phone: 281-244-7683 fax: 281-483-2200

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

(End of clause)

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 | 3

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
018	See Block 16c	4200185293	

6. ISSUED BY CODE JRA	7. ADMINISTERED BY (If other than Item 6) CODE JRG
NASA JSC White Sands Test Facility Attn: Irene Garcia/BH5 P.O. Box 20 Las Cruces, New Mexico 88004	SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)
Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(X)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED (SEE ITEM 11)
X	10A. MODIFICATION OF CONTRACT/ORDER NO. NNJ06HC01C	10B. DATED (SEE ITEM 13) 2/28/2006

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

ACCOUNTING AND APPROPRIATION DATA (If required)
Increase by: $5,142,515.60

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

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). Limitation of Funds 52.232-22
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	d. OTHER (Specify type of modification and authority)

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

14. description of amendment/modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to:

a. Update Section B.4 Contract Funding. The contract funding is increased by $5,142,515.60, from 23,112,742.92 to $28,255,258.52;
b. See page 3 for a breakout of funding;
c. See SPICE for updated section

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Charles A Riley, Jr., Contracting Officer	
CONTRACTOR/OFFEROR (Signature of person authorized to sign)	5C DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 01/17/2007

J-14 RECAPITULATION OF FUNDING

	Prior Obligations	This Action	Cumulative Obligation
CF (CR) Cost	$ 2,881,552.85	$ -	$ 2,881,552.85
Phase-In (FP) Cost	$ 370,344.00	$ -	$ 370,344.00
CR TO's Cost	$ 18,058,278.84	$ 4,717,904.22	$ 22,776,183.06
FFP DO's Cost	$ -	$ -	$ -
Cost Subtotal	$ 21,310,175.69	$ 4,717,904.22	$ 26,028,079.91
CF (CR) Fee	$ 234,968.59	$ -	$ 234,968.59
CR TO's Fee	$ 1,567,598.64	$ 424,611.38	$ 1,992,210.02
FFP DO's Fee	$ -	$ -	$ -
Fee Subtotal	$ 1,802,567.23	$ 424,611.38	$ 2,227,178.61
Cost & Fee Total	**$ 23,112,742.92**	**$ 5,142,515.60**	**$ 28,255,258.52**

*number of funding modifications

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: February 16, 2007, through April 23, 2007.

(b) Recapitulation of Funding: See J-14 (Recapitulation of Funding).

[END OF SECTION]

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 / 3

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
019	See Block 16c	4200185938	

6. ISSUED BY CODE JRG

NASA JSC White Sands Test Facility
Attn: Irene Garcia/BH5
P.O. Box 20
Las Cruces, New Mexico 88004

7. ADMINISTERED BY (If other than Item 6) CODE JRG

SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(X)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED (SEE ITEM 11)
X	10A. MODIFICATION OF CONTRACT/ORDER NO. NNJ06HC01C	10B. DATED (SEE ITEM 13) 2/28/2006

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

ACCOUNTING AND APPROPRIATION DATA (If required)
Increase by: $2,612,064.00

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

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). Limitation of Funds 52.232-22
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	d. OTHER (Specify type of modification and authority)

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

14. description of amendment/modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to:

a. Delete Section B.4 Contract Funding in its entirety and replace with the attached B.4 format;

b. Update Section B.4 Contract Funding. The contract funding is increased by $2,612,064.00, from $28,255,258.52 to $30,867,322.52;

c. See page 3 for a breakout of funding;

d. Delete section J-14 Recapitulation Of Funding in its entirety;

e. See SPICE for updated section

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Valerie A. Marburger, Contracting Officer	
CONTRACTOR/OFFEROR (Signature of person authorized to sign)	5C DATE SIGNED	16B. UNITED STATES OF AMERICA BY Valerie A Marburger (Signature of Contracting Officer)	16C. DATE SIGNED 1/25/07

B.4 CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below. This allotment is for test and evaluation services and covers the following estimated period of performance: March 1, 2006 through _____.

(b) The additional amount obligated under this contract for payment of fee is stated below.

	Total Amount Alloted for Funding		
	Cost/Price	Award Fee	Total
CF (CR)			$0
Phase-In (FP)		$0	$0
CR DO's (T1 - ___)			$0
FFP DO's (D1 - ____)		$0	$0
Total	$0	$0	$0

[END OF SECTION]

14. Continuation

COST

	Prior Obligations	This Action	Cumulative Obligation
CF (CR) Cost	$ 2,881,552.97	$ -	$ 2,881,552.97
Phase-In (FP)	$ 370,344.00	$ -	$ 370,344.00
CR TO's Cost	$ 22,776,181.81	$ 2,396,388.99	$ 25,172,570.80
FFP DO's Cost	$ -	$ -	$ -
Cost Subtotal	$ 26,028,078.78	$ 2,396,388.99	$ 28,424,467.77

FEE

	Prior Obligations	This Action	Cumulative Obligation
CF (CR)	$ 234,968.37	$ -	$ 234,968.37
Phase-In (FP)	$ -		$ -
CR TO's	$ 1,992,211.37	$ 215,675.01	$ 2,207,886.38
FFP DO's	$ -	$ -	$ -
Fee Subtotal	$ 2,227,179.74	$ 215,675.01	$ 2,442,854.75
Cost & Fee Total	$ 28,255,258.52	$ 2,612,064.00	$ 30,867,322.52

This allotment is for test and evaluation services and covers the following estimated period of performance (business days): March 1, 2006 through May 24, 2007.

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1	2

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
020	See Block 16c	N/A	

6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE
JRG NASA JSC White Sands Test Facility Attn: Irene Garcia/BH5 P.O. Box 20 Las Cruces, New Mexico 88004	JRG SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)
Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(x)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED (SEE ITEM 11)
X	10A. MODIFICATION OF CONTRACT/ORDER NO. NNJ06HC01C	10B. DATED (SEE ITEM 13) 2/28/2006

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offor submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

ACCOUNTING AND APPROPRIATION DATA (If required)
Decrease by: ($30,938.00)

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

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). Limitation of Funds 52.232-22
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	d. OTHER (Specify type of modification and authority)

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

14. description of amendment/modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

a. **The purpose of this modification is to update Section B.4 Contract Funding. The contract funding is hereby decreased by $30,938.00 from $30,867,322.52 to $30,836,384.52**
b. **Page 2 contains a breakout of funding.**
c. **See SPICE for updated section.**

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Valerie A. Marburger, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C DATE SIGNED	16B. UNITED STATES OF AMERICA BY Valerie A Marburger (Signature of Contracting Officer)	16C. DATE SIGNED 1/25/07

14. Continuation

COST

	Prior Obligations	This Action	Cumulative Obligation
CF (CR) Cost	$ 2,881,552.97	$ -	$ 2,881,552.97
Phase-In (FP)	$ 370,344.00	$ -	$ 370,344.00
CR TO's Cost	$ 25,172,570.80	$ (28,383.49)	$ 25,144,187.31
FFP DO's Cost	$ -	$ -	$ -
Cost Subtotal	$ 28,424,467.77	$ (28,383.49)	$ 28,396,084.28

FEE

	Prior Obligations	This Action	Cumulative Obligation
CF (CR)	$ 234,968.37	$ -	$ 234,968.37
Phase-In (FP)	$ -		$ -
CR TO's	$ 2,207,886.38	$ (2,554.51)	$ 2,205,331.87
FFP DO's	$ -	$ -	$ -
Fee Subtotal	$ 2,442,854.75	$ (2,554.51)	$ 2,440,300.24
Cost & Fee Total	$ 30,867,322.52	$ (30,938.00)	$ 30,836,384.52

This allotment is for test and evaluation services and covers the following estimated period of performance (business days): April 23, 2007 through May 24, 2007 (no change from modification 19).

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 / 29

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
021	See Block 16c	N/A	

6. ISSUED BY CODE JRG

NASA JSC White Sands Test Facility
Attn: Irene Garcia/BH5
P.O. Box 20
Las Cruces, New Mexico 88004

7. ADMINISTERED BY (If other than Item 6) CODE JRG

SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code)

Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(x)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED (SEE ITEM 11)
X	10A. MODIFICATION OF CONTRACT/ORDER NO. **NNJ06HC01C**	10B. DATED (SEE ITEM 13) **2/28/2006**

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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

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

E. **IMPORTANT:** Contractor ☐ is not, ☒ is required to sign this document and return 3 copies to the issuing office.

14. description of amendment/modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this supplemental agreement to the contract is to:

1) Replace "GOV'T FISCAL CUM" column with "GOV'T FISCAL CUM ACTUALS" title throughout the NF533. This new "GOV'T FISCAL CUM ACTUALS" column will contain the cumulative actuals for the government fiscal year.
2) Replace "TOTAL CNT VALUE EAC APR '09" WITH "TOTAL CNT VALUE APR '09" title throughout the NF533.
3) Delete DRD 10, "NF533 Cost and Data Reporting" and replace with the attached DRD 10, "NF533 Cost and Data Reporting".
4) Modify Clause I.15 OMBUDSMAN by changing the phone number from 281-244-7683 to 281-483-0490.
See SPICE for a more complete detail of modification.

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
JK Beck NTEC PM		**Valerie A. Marburger, Contracting Officer**	
CONTRACTOR/OFFEROR (Signature of person authorized to sign)	5C DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 2/4/07

JSC DATA REQUIREMENTS DESCRIPTION (DRD)

(Based on JSC-STD-123)

Reviewed By:

Chief, Cost Accounting, Reports, and Property Branch
Financial Management Division

Date

Concurred By:

Chief Financial Officer

Date

1. DRD Title	2. Date of current version	3. DRL Line Item No.	RFP/Contract No.
NF533 Cost and Data Reporting	8/8/2006	010	NNJ06HC01C
4. Use (Define need for, intended use of, and/or anticipated results of data)			5. Category (Check one)
To collect costs and workload data for all contract work			☐ Technical ☒ Administrative ☐ SR&QA
6. References (Optional) None		7. Interrelationships (e.g., with other DRDs): None	
8. Preparation Information (Include complete instructions for document preparation).			

Scope:

The NASA Form 533 (NF533) reports provide data necessary for the following:

1. Projecting costs and hours to ensure that dollar and labor resources realistically support project and program schedules.
2. Evaluating contractors' actual cost and fee data in relation to negotiated contract value, estimated costs, and budget forecast data.
3. Planning, monitoring, and controlling project and program resources.
4. Accruing cost in NASA's accounting system, providing program and functional management information, and resulting in liabilities reflected on the financial statements

Cost is a financial measurement of resources used in accomplishing a specified purpose, such as performing a service, carrying out an activity, acquiring an asset, or completing a unit of work or project. NASA Procedural Requirements (NPR) 9501.2D entitled "NASA Contractor Financial Management Reporting," or its most current revision, identifies the cost reporting requirements for a contract.

The NF533 reports are the official cost documents used at NASA for cost type, price redetermination, and fixed price incentive contracts. The data contained in the reports must be auditable using Generally Accepted Accounting Principles. Supplemental cost reports submitted in addition to the NF533 must be reconcilable to the NF533.

Uncompensated overtime hours worked should be reported on NF533 reports as a separate line item or in the footnotes.

For contracts, which have multiple schedules, a summary NF533 is required to provide a cumulative from inception cost for the contract, regardless of schedule.

Frequency:
The due dates for the NF533M and NF533Q reports are outlined in Chapter 3 of NPR 9501.2D. The following is a summary of the NF533 due date requirements.

NF533 Report	Due Date
NF533M	Due not later than 10 working days following the close of the contractor's monthly accounting period, or the 15th day of the calendar month, whichever is earlier.
NF533Q	Due not later than the 15th day of the month proceeding the quarter being reported.

The due dates reflect the date the NF533 reports are received by personnel on the distribution list, not the date the reports are generated or mailed by the contractor. It is critical that the NF533 reports are submitted in a timely manner to ensure adequate time for NASA to analyze and record the cost into the NASA accounting system. All data should be provided electronically in Microsoft Excel format. Timeliness shall be determined by the time the electronic submission arrives at the Cost Accounting Office, however, at least one signed hardcopy submission shall still be required.

Distribution:
LF6 Cost Accounting (1 electronic copy and 1 hard copy with original signature)
BH/WSTF Contracting Officer (1 hard copy with original signature)
LI/WSTF Budget/Program Analyst (1 hard copy with original signature)
WSTF COTR

Format:

NTEC Mod 21

The NF533M and Q forms are shown in the above Excel file and can be found in **NASA Contractor Financial Management Reporting, NASA Procedures and Guidelines (NPG) 9501.2C or latest revision.**

Details:

Accrual Methodologies

NASA is required by law to maintain accrual accounting, which requires cost to be reported in the period in which benefits are received, without regard to time of payment. This contract shall reflect different methodologies for reporting costs on the NF533 documents. This is due to the distinctly different types of work authorized/contract fee type earned. All costs shall be reported through the NF533, whether fixed price or cost reimbursable in nature.

If required, subcontractor cost should be reported based on the same methodologies as the prime.

A) For Contract Statement of Work:

CPAF WBS

The accrual methodology for these WBS's shall be based on the actual costs incurred to date as the month reported, along with an estimate for the listed future periods. This is more traditional "cost plus" reporting. The information below, extracted from the NPG 9501.2C indicates the appropriate accrual methodologies for specific elements of cost.

Cost Element

Examples of accrual accounting for common cost elements reported on the NF533 follow:

Cost Elements	Definitions
Labor	Reported to NASA as hours are incurred.
Equipment & Materials (commercial off the shelf)	Generally reported to NASA when received and accepted by the contractor.
Manufactured Equipment	Defined as any equipment that is produced to specific requirements that make it useless to anyone else without rework. Cost should be reported to NASA as the equipment is being manufactured. The straight-line method for estimating accrued costs or the use of supplemental information obtained from the vendor are acceptable methods used to calculate the cost accrual amount.

Leases	Reported to NASA using a proration over the life of the lease.
Travel	Reported to NASA as costs are incurred.
Subcontracts	Actual and estimated costs reported by prime contractors shall include subcontractors' incurred costs for the same accounting period. Where subcontract costs are material, they should be separately identified on NF533 reports. The prime contractor shall include in the total cost of each subdivision of work the accrued cost (including fee, if any) of related subcontractor effort. Subcontractors should, therefore, be required to report cost to the prime contractor, using the accrual method of accounting. If the G&A and fee reported by a subcontractor are at the total subcontractor level, these costs must be allocated to specific sub-divisions of work. Data submitted by the subcontractor should be structured similar to the prime contractor's NF533 to enable the prime contractor to properly report to NASA. For Firm Fixed Price subcontracts with a contract value greater than $500,000, the prime contractor is required to document the methodology used to generate the sub- contractor costs reported and provide this information to the Contracting Officer and Center Deputy Chief Financial Officer (Finance).
Unfilled Orders	Reported as the difference between the cumulative cost incurred to date and amounts obligated to suppliers and subcontractors.
Fee	Should be accrued as earned using a consistent and auditable method to determine the amount. For example: an acceptable method would be to use historical data to determine the amount to accrue each month. Fee should be reported on the NF533 following the "Total Cost" line. Award fee must be reported by the following categories: Base Fee, Fee Earned, Interim Fee, Provisional Fee, Potential Additional Fee, and Total Fee. If any of the above fee categories do not pertain, they should not be included in the NF533.
Prompt Payment Discounts	Cumulative cost reported to NASA should be the full incurred cost. The prompt payment discount amount taken should be reported as a separate line item on the NF533 below the cumulative cost amounts for the contract.

B) For Indefinite Delivery/Indefinite Quantity (IDIQ) work:

Firm fixed Price IDIQ

The accrual methodology shall be identified according to the individual delivery order instructions. The cost reported on the NF533 shall be based upon either: 1) cost at completion (therefore, there shall be no cost reported prior to the actual completion and Government acceptance of the job), or 2) as work in process as identified on each order for some types of work, (therefore, getting partial credit for percentage complete prior to 100% completion of task).

In addition to the contract and WBS level reporting required in Exhibits 1 to 3, detailed reporting by delivery order shall be required (Exhibit 4).

CPAF IDIQ

The accrual methodology shall be based on actual cumulative costs incurred to date as of the month reported, along with an estimate for the listed future periods. This is more traditional "cost reimbursable" reporting. Additional direction may be found on the delivery order itself.

In addition to the contract and WBS level reporting required in Exhibits 1 to 3, detailed reporting by order shall be required (Exhibit 4).

Workload Reporting

The contractor shall provide a monthly report with workload performance metrics by WBS. The monthly report shall be due on the same date as the NF533, and shall reflect the same period of performance. Workload metrics shall be provided for each WBS, and shall be subtotaled at a level that is consistent with the cost reporting at the sub-WBS level. A sample format is attached (Exhibit 5).

Baseline NF533

An initial NF533 report is required in the NF533Q format to be used as a baseline for the life of the contract. The initial (baseline) NF533Q report shall be submitted by the contractor within 30 days after authorization to proceed has been granted. The initial report shall reflect the original contract value detailed by negotiated reporting categories and shall be the original contract baseline plan. In addition to the initial (baseline) report, monthly NF533 reporting shall begin no later than 30 days after the incurrence of cost.

Column 7b (planned cost incurred/hours worked for the month) and 7d (cumulative planned cost incurred/hours worked) of the NF533M (Exhibits 1 and 2) represent the negotiated baseline plan for the contract. There may not be a relationship between the estimates provided in columns 8 of the NF533M to columns 7b and 7d. Columns 7b and 7d represent the legally binding contract negotiated baseline plan plus all authorized changes.

Short and long-term cost estimates, which include all data entered in columns 8 and 9a on the NF533M and NF533Q reports, shall be based on the most current and reliable information available. For Exhibit 3, the annual funding limit (Column 8e) shall reflect the results of the annual budget and content planning process and any subsequent changes throughout the fiscal year.

Prior period cost adjustments should be reported in column 7a and 7c of NF533M and column 7a of the NF533Q with a footnote discussing the reasons for and amounts of the adjustments.

Monthly NF533 reporting is no longer required once the contract is physically complete, provided the final cost report includes actual cost only (no estimates or forecasts). The contractor must continue to submit monthly NF533 reports as long as estimates for the following period are included. If the final cost of a contract changes after the submission of the "final" contractor cost report, the contractor must submit a revised NF533 report in the month the cost change is recognized.

Electronic NF533 Requirement

In addition to submitting the NF533M or NF533Q in a hardcopy and electronic format, the contractor, upon request, shall submit the NF533 electronically in a flat file by the same due date as the hardcopy. The data shall be submitted via email using the Government prescribed flat file format (see attached Agency Defined File Format for an example of the layout details) and shall include the following header information from the hardcopy.

Data Element	Description
Contract Number	NASA assigned contract number
Modification Number	Latest definitive Modification Number
Accrual Date	Date the data was generated for
Report Period End Date	Period ending date of the NF533
Operating Days	Number of operating days for the current NF533
Date Received/Submitted	Date the report is submitted
CCR Format	Monthly (NF533M) or Quarterly (NF533Q)
Cost Unit of Measure	Unit of measure used to report cost on the NF533 report
HR/WYE Unit of Measure	Unit of measure used to report Hours/Work Year Equivalents (WYEs) on the NF533 report
Authorized Contractor Representative	Name of Contractor Approving Officer
Authorized Contractor Representative Date Signed	Date the NF533 is approved and signed by the authorized Contractor Representative
Monthly Grand Total Cost Incurred (7a)	Grand Total Actual Monthly cost for the prior month (column 7a on the NF533)
Monthly Grand Total HR/WYE (7a)	Grand Total Actual monthly hours/WYEs for the prior month (column 7a on the NF533)
Monthly Grand Total Cost Planned (7b)	Prior month planned cost (column 7b on the NF533)
Grand Total Cost Incurred ITD (7c)	Grand total contract cost from Inception to Date (ITD) (column 7c on the NF533)
Grand Total Planned Cost (7d)	Grand total planned contract cost (column 7d on the NF533)
Grand Total Estimated Cost (8a)	Grand total current month cost estimate (column 8a on the NF533)
Grand Total Estimated HR/WYE (8a)	Grand total current month HR/WYE estimate (column 8a on the NF533)
Grand Total Next Month Estimated Cost (8b)	Grand total next month cost estimate (column 8b on the NF533)
Grand Total Balance of Contract (8c)	Contract Balance for the remaining estimate to complete (column 8c on the NF533)
Grand Total Contractor Estimate (9a)	Contractor estimate to complete entire scope of contract (column 9a on the NF533)
Grand Total Contract Value (9b)	Contractor distribution of contract value by the reporting categories (column 9b on the NF533)
Grand Total Unfilled Orders Outstanding (10)	Unfilled order outstanding at the end of the reporting period (column 10 on the NF533)

The flat file will also contain detail information for each Reporting Category (RC). A Reporting Category correlates to a task order, delivery order, or Work Breakdown Structure (WBS) and is the level at which cost is reported. Each RC can have Sub-Reporting Category line items (detailed cost elements) that add up to a RC. **The Contractor is required to coordinate with the NASA Resource Analyst assigned to the contract in order to establish and maintain the Reporting Categories the contractor shall use to comply with this data requirement.** The chart below describes the data elements to be included in this section of the flat file (see attached Agency Defined File Format for specific layout details).

Data Element Name	Description
Reporting Category (RC)	Task, Delivery Order, Work Breakdown Structure
Cost Incurred for Month (7a)	Prior month actual cost incurred for each RC (column 7a on NF533)
HR/WYE Incurred for Month (7a)	Prior month actual HR/WYE incurred for each RC (column 7a on NF533)
Contract prior month planned cost (7b)	Planned cost for prior month for each RC (column 7b on NF533)
Contract ITD cost (7c)	Contract ITD cost for each RC (column 7c on NF533)
Contract planned ITD cost (7d)	Contract planned ITD cost for each RC (column 7d on NF533)
Current month estimated cost (8a)	Cost estimate for the current month for each RC (column 8a on NF533)
Current month estimated HR/WYE (8a)	HR/WYE estimate for the current month for each RC (column 8a on NF533)
Next month estimated cost (8b)	Estimated cost for next month for each RC (column 8b on NF533)
Balance of Contract (8c)	Balance of contract for the remaining estimate to complete for each RC (column 8c on NF533)
Contractor Estimate (9a)	Contractor estimate for the total estimate to complete entire scope of contract for each RC (column 9a on NF533)
Contract Value (9b)	Contract value based upon contract modifications for each RC (column 9b on NF533)
Unfilled orders outstanding (10)	Unfilled orders outstanding at the end of the reporting period for each RC (column 10 on NF533)
Reporting Category level	Used by NASA's accounting system to determine the RC level
Reporting Category Identifier	Identifies if the RC is a actual Reporting Category or a Sub-Reporting Category

The flat file shall be saved as a text file with no extension (do not include .txt after the file name) and named in strict accordance with the specific format described in the attached Agency Defined File Format document.

File names must be provided in a specific format. Each file name will begin with the SAP 2 Character center abbreviation listed below. The contract number and date will be included in the file name as well. Below is a sample file name.

MACFPS001_NAS00-0001_yyyy_mm_dd

SAP 2 Charter Center Abbreviations

Headquarters	HQ	Dryden	DR
Marshall	MA	Goddard	GO
Ames	AM	Stennis	ST
Glenn	GL	Johnson	JO
Langley	LA	Kennedy	KE

References:

****NASA Contractor Financial Management Reporting, NASA Procedures and Guidelines (NPG) 9501.2C.**

Header (Non-Repeating Segment)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	St Pos	EndPos	Len	Formt
HEADER:									
Record Type	Used by eGate to determine record type	'HD' for Header	Required	Required	RECORD_TYPE	1	2	2	CHAR
Contract Number	Contract Number (1b)	Header field—submitted with CONTRACTOR data or defaulted by interface or extension	Required	Required	CONTRACT_NUMBER	3	12	10	CHAR
	Latest definitive Modification Number(CR8197)				MOD_NUMBER	13	18	6	CHAR
Accrual Date	Date the data was generated for. Used by SAP as part of Oracle table key	Accrual Date. MM01YYYY, where MM is the Accrual Month and YYYY is the fiscal year	Required	Required	ACCRUAL_DATE	19	26	8	DATE MM01YYYY
Report Period End Date	Report Period End Date is a date(2)	Header field—submitted with CONTRACTOR data or defaulted by interface or extension	Required	Required	REP_END_DATE	27	34	8	DATE
Operating Days	Operating days(2).	Header field—submitted with CONTRACTOR data	Required	Optional unless Required by contract	OPER_DAYS	35	40	6	NUMERIC
Date Received	Date Received (1d)	System Date upon which the cost data is loaded into the CCR Extension	Required	Required	DATE_REC	41	48	8	DATE
CCR Format	'M' for Monthly and 'Q' for Quarterly (SIR2047)	Submitted with CONTRACTOR data	Required	Required	CCR_FORMAT	49	49	1	CHAR
Cost Unit of Measure	Cost Unit of Measure (SIR2047)	Submitted with CONTRACTOR data	Required	Required	COST_UOM	50	51	2	CHAR

HR/WYE Unit of Measure	Hour/Work-Year-Equivalent Unit of Measure (SIR2047)	Submitted with CONTRACTOR data	Required	Required	HR_WYE_UOM	52	53	2	CHAR
	Authorized Contractor Representative – Name of Contractor Approving Officer (CR 8197)				AUTH_SIGNATURE	54	78	25	CHAR
	Authorized Contractor Representative Date Signed – Date CCR is approved/signed by authorized contractor representative(CR 8197)				AUTH_SIGNATURE_DATE	79	86	8	DATE MMDDYYYY
Grand Total Cost Incurred Month (7a)	The Grand Total Contract Prior Month Actual Dollars Column 7a reports actual costs for the prior month.	Submitted with CONTRACTOR data	Required.	Optional. Only required if lower detailed line item data is submitted in monthly batch file.	GT_COST_INCUR_MONTH	87	99	13	CURRENCY(2)
Grand Total HR/WYE (7a)	The Grand Total Contract Prior Month Actual Hours Column 7a reports actual HR or WYE for the prior month.	Submitted with CONTRACTOR data	Required if detailed line item data is submitted in monthly batch file.	Required if detailed line item data is submitted in monthly batch file.	GT_HRWYE_PRIOR_MONTH	100	109	10	NUMERIC(1)
	The Grand Total Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month. (CR8197)				GT_COST_PLANNED_MONTH	110	122	13	CURRENCY (2)

Grand Total Cost Incurred ITD (7c)	The Grand Total Contract Cost Dollars Column 7c which represents Contract Cost Inception to Date	Submitted with CONTRACTOR data	Required. Does not require detailed line item data if provided from Cost Incurred Month (7a)	Required if detailed line item data is provided for this column	GT_ITD_COST	123	135	13	CURRENCY (2)
	Grand Total Cotract Planned Cost Dollars Column (7d) which represents Planned Contract Cost Inception to Date(CR 8197)				GT_COST_PLANNED_ITD	136	148	13	CURRENCY (2)
Grand Total Estimated Cost (8a)	The Grand Total Contract Estimated Cost for first upcoming month, or Current Month Estimate for cost.	Submitted with CONTRACTOR data	Required	Required if detailed line item data is provided for this column	GT_EST_COST	149	161	13	CURRENCY (2)
Grand Total HR/WYE (8a)	The Grand Total Contract Estimated Hours for first upcoming month, or Current Month Estimate for HR/WYE.	Submitted with CONTRACTOR data	Required if detailed line item data is provided for this column	Required if detailed line item data is provided for this column	GT_HRWYE_FIRST_MONTH	162	171	10	NUMERIC (1)
Grand Total Next Month Estimated Cost (8b)	The Grand Total Contract Estimated Cost for second upcoming month or Next Month Estimate for cost.	Submitted with CONTRACTOR data	Required if detailed line item data is provided for this column	Required if detailed line item data is provided for this column	GT_NEXT_MONTH_EST	172	184	13	CURRENCY (2)

	Grand Total Balance of Contract for the remaining estimate to complete (CR 8197)				GT_BALANCE_CONTRACT	185	197	13	CURRENCY (2)
	Grand Total Contractor Estimate for the total estimate to complete entire scope of contract (CR 8197)				GT_BALANCE_CONTRACTOR_ESTIMATE	198	210	13	CURRENCY (2)
	Grand Total Contract Value based upon Contract Modifications (CR 8197)				GT_CONTRACT_VALUE	211	223	13	CURRENCY (2)
	Grand Total Unfilled Orders Outstanding at end of reporting period (CR 8197)				ST_UNFILLED ORDERS	224	236	13	CURRENCY (2)

Example File Format

Detail (Repeating Segment)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	St Pos	End Pos	Len	Format
CCR DETAIL LINE ITEMS:									
Record Type	'DM' for Monthly column 7a Detail; 'DQ' for ITD Column 7c Detail	"RD" for Detail	Required	Required	RECORD_TYPE	1	2	2	CHAR
Reporting Category	Reporting Category (6)	Line item field – submitted with CONTRACTOR data	Required	Required	SERV_ORD_CAT	3	26	24	CHAR
Cost Incurred Month (7a)	Prior Month incurred costs (ACTUALS) for given category.	Line item field – submitted with CONTRACTOR data	Required if detailed line item data is not provided from Cost Incurred Month (7c)	Determined by contract requirement- data from Column 7a, 7c or 8a	COST_INCUR_MONTH	27	39	13	CURRENCY (2)
HR/WYE Incurred Month (7a)	Prior month incurred hours worked [Actuals] for given category..	Line item field – submitted with CONTRACTOR data	Optional unless Required by contract for WYE calculation	Optional unless Required by contract for WYE calculation	HRWYE_INCUR_MONTH	40	49	10	NUMERIC (1)
	Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month (CR 8197)				COST_PLANNED_MONTH	50	62	13	CURRENCY (2)
	Contract Cost Dollars Column (7c) which represents Contract Cost Inception to Date (CR 8197)				CUR_COST_INCUR_ITD	63	75	13	CURRENCY (2)
	Contract Planned Cost Dollars Column (7d) which represents Planned Contract Cost				COST_PLANNED_ITD	76	88	13	CURRENCY (2)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	St Pos	End Pos	Len	Format
	Inception to Date (CR 8197)								
Current Month Estimated Cost (8a)	Estimated costs for first upcoming month for given category.	Line item field – submitted with CONTRACTOR data	Required.	Determined by contract requirement- data from Column 7a, 7c or 8a	CUR_MONTH_EC	89	101	13	CURRENCY (2)
HR/WYE Current Month Estimate (8a)	Estimated hours for first upcoming month for given category. Will only be needed if labor hours are required to be submitted electronically per contract.	Line item field – submitted with CONTRACTOR data	Optional unless Required by contract for WYE calculation	Optional unless Required by contract for WYE calculation	HRWYE_CUR_MONTH_EST	102	111	10	NUMERIC (1)
Next Month Estimated Cost (8b)	Estimated costs for second upcoming month for given category.	Line item field – submitted with CONTRACTOR data	Required unless not part of Contract scope	Required unless not part of Contract scope	NEXT_MONTH_EC	112	124	13	CURRENCY (2)
	Balance of Contract for the remaining estimate to complete (8c) (CR 8197)				BALANCE_CONTRACT	125	137	13	CURRENCY (2)
	Contractor Estimate for the total estimate to complete entire scope of contract (9a) (CR 8197)				CONTRACTOR_ESTIMATE	138	150	13	CURRENCY (2)
	Contract Value based upon Contract Modifications (CR 8197)				CONTRACT_VALUE	151	163	13	CURRENCY (2)
	Unfilled Orders Outstanding at end of reporting period (CR 8197)				UNFILLED ORDERS	164	176	13	CURRENCY (2)
	Used by SAP to determine Reporting Category Level (1.1.2.2.1) (CR 8197)				REPORTING_LEVEL	177	206	30	CHAR
	Fill in an "X" if record is a Reporting Category. Otherwise, leave blank for Sub-Reporting Category Line Items and Element of Cost detail records. This field is used by SAP to determine if the record is a Reporting Category. (CR 8197)				REPORTING_CAT_INDICATOR	207	207	1	CHAR

Example File Format

Sub-Reporting Category Line Items – Repeating Segment

Field Name	Start Pos	End Pos	Length	Format	Variable Repetition (?,*,+,n-n)	Description
SUB_RECORD_TYPE	1	2	2	CHAR		'SM' for Monthly column 7a Detail; 'SQ' for ITD column Detail
SUB_REP_CAT	3	26	24	CHAR		Reporting Category
SUB_COST_INCUR_MONTH	27	39	13	CURRENCY (2)		Prior month incurred costs (Actuals) for given category.
SUB_HRWYE_INCUR_MONTH	40	49	10	NUMERIC (1)		Prior month incurred hours worked (Actuals) for given category.
SUB_COST_PLANNED_MONTH	50	62	13	CURRENCY (2)		Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month.
SUB_CUR_COST_INCUR_ITD	63	75	13	CURRENCY (2)		Contract Cost Dollars Column (7c) which represents Contract Cost Inception to Date.
SUB_COST_PLANNED_ITD	76	88	13	CURRENCY (2)		Contract Planned Cost Dollars Column (7d) which represents Planned Contract Cost Inception to Date.
SUB_CUR_MONTH_EC	89	101	13	CURRENCY (2)		Estimated costs for first upcoming month for given category (8a).
SUB_HRWYE_CUR_MONTH_EST	102	111	10	NUMERIC (1)		Estimated hours for first upcoming month for given category. Will only be needed if labor hours are required to be submitted electronically per contract (8a).
SUB_NEXT_MONTH_EC	112	124	13	CURRENCY (2)		Estimated costs for second upcoming month for given category (8b).
SUB_BALANCE_CONTRACT	125	137	13	CURRENCY (2)		Balance of Contract for the remaining estimate to complete (8c).
SUB_CONTRACTOR_ESTIMATE	138	150	13	CURRENCY (2)		Contractor Estimate for the total estimate to complete entire scope of contract (9a).
SUB_CONTRACT_VALUE	151	163	13	CURRENCY (2)		Contract Value based upon Contract Modifications (9b).
SUB_UNFILLED_ORDERS	164	176	13	CURRENCY (2)		Unfilled Orders Outstanding at end of reporting period.
REPORTING_LEVEL	177	206	30	CHAR		Used by SAP to determine Reporting Category Level (1.1.2.2.1) (CR 8197).
REPORTING_CAT_INDICATOR	207	207	1	CHAR		Fill in an "X" if record is a Reporting Category. Otherwise, leave Blank for Sub-Reporting Category Line Items and Element of Cost detail records. This field is used by SAP to determine if the record is a Reporting Category. (CR 8197)

Example File Format

533 Agency FILE RECORD LAYOUT (*Element of Cost Detail – Repeating Segment (CR8197)*)

Field Name	Start Pos	End Pos	Length	Format	Variable Repetition (?,*,+,n-n)	Description
RECORD_TYPE	1	2	2	CHAR		'EM' for Monthly column 7a Detail; 'EQ' for ITD column Detail
EOC_REP_CAT	3	26	24	CHAR		Reporting Category
EOC_COST_INCUR_MONTH	27	39	13	CURRENCY (2)		Prior month incurred costs (Actuals) for given category.
EOC_HRWYE_INCUR_MONTH	40	49	10	NUMERIC (1)		Prior month incurred hours worked (Actuals) for given category.
EOC_COST_PLANNED_MONTH	50	62	13	CURRENCY (2)		Contract Prior Month Planned Dollars Column (7b) reports planned costs for the prior month.
EOC_CUR_COST_INCUR_ITD	63	75	13	CURRENCY (2)		Contract Cost Dollars Column (7c) which represents Contract Cost Inception to Date.
EOC_COST_PLANNED_ITD	76	88	13	CURRENCY (2)		Contract Planned Cost Dollars Column (7d) which represents Planned Contract Cost Inception to Date.
EOC_CUR_MONTH_EC	89	101	13	CURRENCY (2)		Estimated costs for first upcoming month for given category (8a).
EOC_HRWYE_CUR_MONTH_EST	102	111	10	NUMERIC (1)		Estimated hours for first upcoming month for given category. Will only be needed if labor hours are required to be submitted electronically per contract (8a).
EOC_NEXT_MONTH_EC	112	124	13	CURRENCY (2)		Estimated costs for second upcoming month for given category (8b).
EOC_BALANCE_CONTRACT	125	137	13	CURRENCY (2)		Balance of Contract for the remaining estimate to complete (8c).
EOC_CONTRACTOR_ESTIMATE	138	150	13	CURRENCY (2)		Contractor Estimate for the total estimate to complete entire scope of contract (9a).
EOC_CONTRACT_VALUE	151	163	13	CURRENCY (2)		Contract Value based upon Contract Modifications (9b).
EOC_UNFILLED_ORDERS	164	176	13	CURRENCY (2)		Unfilled Orders Outstanding at end of reporting period.
REPORTING_LEVEL	177	206	30	CHAR		Used by SAP to determine Reporting Category Level (1.1.2.2.1) (CR 8197).
REPORTING_CAT_INDICATOR	207	207	1	CHAR		Fill in an "X" if record is a Reporting Category. Otherwise, leave Blank for Sub-Reporting Category Line Items and Element of Cost detail records. This field is used by SAP to determine if the record is a Reporting Category. (CR 8197)

Example File Format

Trailer (provides the number of header & detail records sent from the contractor/vendor/center in order to verify the receipt of complete data after transmission)

CCR Extension Data Element	Description	Contractor Initial Data Mapping	NF 533 Required/ Optional	OTHER CCR Required/ Optional	Field Name	Start Pos	End Pos	Length	Format
TRAILER:									
Record Type	Used by eGate to determine record type	"TL" for Trailer	Required	Required	RECORD_TYPE	1	2	2	CHAR
Record Count	Count of the number of Detail records sent to process (Detail Only)	Trailer field submitted with CONTRACTOR data	Required	Requried	RECORD_COUNT	3	9	7	NUMERIC
	Value of spaces				FILLER	10	207	198	CHAR

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 | 2

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
023 22	See Block 16c	4200189858/4200185938	

6. ISSUED BY CODE JRG	7. ADMINISTERED BY *(If other than Item 6)* CODE JRG
NASA JSC White Sands Test Facility **Attn: Irene Garcia/BH5** **P.O. Box 20** **Las Cruces, New Mexico 88004**	SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State, and ZIP Code)*
Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(x)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED *(SEE ITEM 11)*
X	10A. MODIFICATION OF CONTRACT/ORDER NO. **NNJ06HC01C**	10B. DATED *(SEE ITEM 13)* **2/28/2006**

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and ☐ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offor submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

ACCOUNTING AND APPROPRIATION DATA *(If required)*
increase by: $3,869,631.25

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

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). Limitation of Funds 52.232-22
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	d. OTHER *(Specify type of modification and authority)*

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

14. description of amendment/modification *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*
The purpose of this modification is to:

a. Update Section B.4 Contract Funding. The contract funding is increased by $3,869,631.25, from $30,836,384.52 to $34,706,015.77;
b. See page 2 for a breakout of funding;
c. See SPICE for updated section

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)* **Valerie A. Marburger, Contracting Officer**	
CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	5C DATE SIGNED	16B. UNITED STATES OF AMERICA BY Valerie A Marburger *(Signature of Contracting Officer)*	16C. DATE SIGNED 2/14/07

14. Continuation

COST

	Prior Obligations	This Action	Cumulative Obligation
CF (CR) Cost	$ 2,881,552.97	$ -	$ 2,881,552.97
Phase-In (FP)	$ 370,344.00	$ -	$ 370,344.00
CR TO's Cost	$ 25,144,187.31	$ 3,550,120.41	$ 28,694,307.72
FFP DO's Cost	$ -	$ -	$ -
Cost Subtotal	$ 28,396,084.28	$ 3,550,120.41	$ 31,946,204.69

FEE

	Prior Obligations	This Action	Cumulative Obligation
CF (CR)	$ 234,968.37	$ -	$ 234,968.37
Phase-In (FP)	$ -		$ -
CR TO's	$ 2,205,331.87	$ 319,510.84	$ 2,524,842.71
FFP DO's	$ -	$ -	$ -
Fee Subtotal	$ 2,440,330.24	$ 319,510.84	$ 2,759,811.08
Cost & Fee Total	$ 30,836,384.52	$ 3,869,631.25	$ 34,706,015.77

This allotment is for test and evaluation services and covers the following estimated period of performance (business days): March 1, 2006 through July 16, 2007.

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 2

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
023	See Block 16c	4200185293	

6. ISSUED BY CODE JRG	7. ADMINISTERED BY *(If other than Item 6)* CODE JRG
NASA JSC White Sands Test Facility **Attn: Irene Garcia/BH5** **P.O. Box 20** **Las Cruces, New Mexico 88004**	SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State, and ZIP Code)*
Jacobs Sverdrup
Sverdrup Technologies, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(X)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED *(SEE ITEM 11)*
X	10A. MODIFICATION OF CONTRACT/ORDER NO. **NNJ06HC01C**	10B. DATED *(SEE ITEM 13)* **2/28/2006**

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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(a) By completing Items 8 and 15, and returning [ ] copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offor submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*
Decrease by: $108,000

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

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
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	d. OTHER *(Specify type of modification and authority)*

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

14. description of amendment/modification *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this modification is to:

a. Update Section B.4 Contract Funding. The contract funding is decreased by $108,000, from $34,706,015.77 to $34,598,015.77;
b. See page 2 for a breakout of funding;
c. See SPICE for updated section

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)* **Valerie A. Marburger, Contracting Officer**	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Valerie A Marburger *(Signature of Contracting Officer)*	16C. DATE SIGNED 3/20/07

14. Continuation

COST

	Prior Obligations	This Action	Cumulative Obligation
CF (CR) Cost	$ 2,881,552.97	$ -	$ 2,881,552.97
Phase-In (FP)	$ 370,344.00	$ -	$ 370,344.00
CR TO's Cost	$ 28,694,307.72	$ (99,082.57)	$ 28,595,225.15
FFP DO's Cost	$ -	$ -	$ -
Cost Subtotal	$ 31,946,204.69	$ (99,082.57)	$ 31,847,122.12

FEE

	Prior Obligations	This Action	Cumulative Obligation
CF (CR)	$ 234,968.37	$ -	$ 234,968.37
Phase-In (FP)	$ -		$ -
CR TO's	$ 2,524,842.71	$ (8,917.43)	$ 2,515,925.28
FFP DO's	$ -	$ -	$ -
Fee Subtotal	$ 2,759,811.08	$ (8,917.43)	$ 2,750,893.65
Cost & Fee Total	$ 34,706,015.77	$ (108,000.00)	$ 34,598,015.77

This allotment is for test and evaluation services and covers the following estimated period of performance (business days): March 1, 2006 through July 16, 2007.

OMB Approval No. 2700-0042

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 | 2

AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
024	See Block 16c	4200193925	

6. ISSUED BY CODE JRG	7. ADMINISTERED BY *(If other than Item 6)* CODE JRG
NASA JSC White Sands Test Facility **Attn: Margaret E. Brown/BH5** **P.O. Box 20** **Las Cruces, New Mexico 88004**	SEE BLOCK 6

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State, and ZIP Code)*
Jacobs Technology, Inc.
600 Williams Northern Blvd.
PO Box 884
Tullahoma, TN 37388

CODE		FACILITY CODE
(x)	9A. AMENDMENT OF SOLICITATION NO. N/A	9B. DATED *(SEE ITEM 11)*
X	10A. MODIFICATION OF CONTRACT/ORDER NO. **NNJ06HC01C**	10B. DATED *(SEE ITEM 13)* **2/28/2006**

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

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	d. OTHER *(Specify type of modification and authority)*

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

14. description of amendment/modification *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this modification is toupdate Section B.4, Contracting Funding.

The contract funding is increased by $2,960,000 from $34,598,015.77 to $37,558,015.77
Page 2 contains a breakout of funding.
See SPICE for the updated section.

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

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)* **Valerie A. Marburger, Contracting Officer**	
. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	5C DATE SIGNED	16B. UNITED STATES OF AMERICA BY Valerie A Marb *(Signature of Contracting Officer)*	16C. DATE SIGNED 3/21/07

Continuation of SF 30, Block 14

COST

	Prior Obligations	This Action	Cumulative Obligation
CF (CR) Cost	$ 2,881,552.97	$ 2,960,000.00	$ 5,841,552.97
Phase-In (FP)	$ 370,344.00	$ -	$ 370,344.00
CR TO's Cost	$ 28,595,225.15	$0.00	$ 28,595,225.15
FFP DO's Cost	$ -	$ -	$ -
Cost Subtotal	$ 31,847,122.12	$ 2,960,000.00	$ 34,807,122.12

FEE

	Prior Obligations	This Action	Cumulative Obligation
CF (CR)	$ 234,968.37	$ -	$ 234,968.37
Phase-In (FP)	$ -		$ -
CR TO's	$ 2,515,925.28	$ -	$ 2,515,925.28
FFP DO's	$ -	$ -	$ -
Fee Subtotal	$ 2,750,893.65	$ -	$ 2,750,893.65
Cost & Fee Total	$ 34,598,015.77	$ -	$ 37,558,015.77

Test and Evaluation (TEC) Task Order
7TDCLVR.- (Project)

7TDCLVR.- CLV Roll Control Program Support
Status: Task Order Approved

Originator: Kevin Farrah (RD)

PM: Kevin Farrah (RD)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: CLV Roll Control Program Support

Type: Project

Estimated Start Date: 03/12/2007

Estimated End Date: 03/01/2008

New Mexico Gross Receipt Tax Exempt: No

Scope Of Work: WSTF has been asked to provide program support for the roll control systems for the 1st and upper stages on the CLV. Test Stand 403 has been identified as the facility of choice to perform the testing of the roll control systems at simulated altitude. The program needs WSTF to provide information on the test stand, the altitude subsystems, electrical controls, instrumentation, and propellant subsystems to help in the pre-planning stages. As requests for information and support come in from the program, this TO will be revised to capture the increase in scope.

Description Of Work:

WSTF has been asked to participate on telecons and technical interchanges with MSFC. Plan on ten 2 hour meetings.

WSTF has been asked to provide drawings, sketches, and information for test stand 403.

WSTF will need to host a tour of MSFC personnel of the facility.

Products and Services Required:

Engineering support to field questions on test stand 403, altitude systems, electrical systems, and propellent systems and handling.

Project Leadership to maintain administration and upkeep of this project including requests for FOSC support.

Materials and Travel Requirements:

Contractor to supply all materials.

Travel not foreseen at this time. A revision will be initiated if travel is necessary.

No government furnished equipment.

Deliverables:

1. **Specific Deliverable:** As negotiated on the task plan, as requirements evolve Deliverables will be added on revisions to this TO.
   Date or Critical Requirement:

Performance Standard: Contractor estimate within 10% of actual cost, and completion within 10% of planned duration in working days.

Budget Total: $5,700.00

1. **Fund Source**
   136905.08.05.05.01.08 Upper Stage & 1st Stage RCS Sys Qual Test

Dollars	**Comments**
$5,700.00	additional funds will be added as scope evolves

Project Estimate (Contractor Response)

Planned Start Date: 03/12/2007 **Planned Completion Date:** 03/01/2008

Project Lead: Dennis Smith (505) 524-5626

Assumptions and Clarifications to Requirements: Agree.

Specific Deliverables: Agree.

Labor:
Materials:
Travel:
Other:

Total: $4,630.57

Stock Issues:

Other $ Comments:

Test and Evaluation (TEC) Task Order . 7TFNSTC.- (Project)

7TFNSTC.- Courses for NSTC

Status: Task Order Approved

Originator: Sarah Smith (RF)

PM: Sarah Smith (RF)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: Courses for NSTC

Type: Project

Estimated Start Date: 12/10/2006

Estimated End Date: 09/30/2007

New Mexico Gross Receipt Tax Exempt: No

Scope Of Work: This TO covers travel and labor related to courses for the NASA Safety Training Center. These courses are in the areas of oxygen, hydrogen, and hypergol safety.

Description Of Work:

The purpose of this project is to provide instruction, course development, and course maintenance for the NASA Safety Training Center (NSTC). The frequency, type, and location of each course is determined by the NSTC, and this TO will be modified as needed with new requirements. Course materials are provided by the NSTC.

Products and Services Required:

1. Teach two back-to-back *Fire Hazards in Oxygen Systems* courses at Stennis Space Center. Assume two contractor instructors for estimating purposes.

2. Teach one *Hydrogen Safety* course at Stennis Space Center. Assume two contractor instructors for estimating purposes.

3. Prepare for one *Hypergol Systems* course.

Materials and Travel Requirements:

No NASA purchases will be required.

Contractor travel will be required.

Deliverables:

1. **Specific Deliverable:** Teach 2 oxygen courses at Stennis Space Center.
   Date or Critical Requirement: 3/15/2007

2. **Specific Deliverable:** Teach 1 hydrogen course at Stennis Space Center.
   Date or Critical Requirement: 3/15/2007

3. **Specific Deliverable:** Prepare for 1 hypergol course.
   Date or Critical Requirement: 3/15/2007

Performance Standard: Contractor estimate within 10% of actual cost, and completion within 10% of planned duration in working days.

Budget Total: $25,650.00

1. **Fund Source**
   72-104-04-01-01 Reimbursable - NSTC Hydrogen course development

Dollars	Comments
$25,650.00	This funding is carryover from FY06. Accounting for travel and labor costs, this should be the total of all the funding left from FY06. When FY07 funds are received from NSTC, more requirements will be added.

Project Estimate (Contractor Response)

Planned Start Date: 12/10/2006 **Planned Completion Date:** 09/30/2007

Project Lead: Kurt Rathgeber (505) 524-5603

Assumptions and Clarifications to Requirements: Agree.

Specific Deliverables:

Agree.

Labor:
Materials:
Travel:
Other:

Total: $17,591.13

Stock Issues:

Other $ Comments:

Test and Evaluation (TEC) Task Order
7TFHVCD.- (Project)

7TFHVCD.- Hypervelocity Capabilities Development

Status: Task Order Approved

Originator: Karen Rodriguez (RF)

PM: Karen Rodriguez (RF)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: Hypervelocity Capabilities Development

Type: Project

Estimated Start Date: 11/28/2006

Estimated End Date: 02/01/2007

New Mexico Gross Receipt Tax Exempt: No

Scope Of Work: To investigate/develop additional Hypervelocity capabilities.

Description Of Work:

1. Project Management of following tasks
2. Evaluate the possibility of using larger powder loads
3. Evaluate new 17-caliber barrel material
4. Perform feasibility study for additional ports on the 50-caliber targer tank

Products and Services Required:

1. Modify appropriate Safety Reviews for larger powder loads
2. Perform DR for 17-caliber barrel material
3. Provide results of feasibility study

Materials and Travel Requirements:

1. None

Deliverables:

1. **Specific Deliverable:** See Products and Services Required
   Date or Critical Requirement: 01/31/2007

Performance Standard:

Contractor estimate within 10% of actual cost, and completion within 10% of planned duration in working days.

udget Total: $12,500.00

1. **Fund Source**
   644423.02.38.02.10 CEV- Labs Micomet & Orb Debris
   Dollars **Comments**
   $6,250.00

2. **Fund Source**
   401769.06.03.07.03.05 Station-Station Hypervelocity Support
   Dollars **Comments**
   $6,250.00

Project Estimate (Contractor Response)

Planned Start Date: 11/28/2006 **Planned Completion Date:** 02/01/2007

Project Lead: Donald Henderson (505) 524-5104

Assumptions and Clarifications to Requirements:

Agree.

pecific Deliverables: Agree.

Labor:
Materials:
Travel:
Other:

Total: $12,495.98

Stock Issues:

Other $ Comments:

Test and Evaluation (TEC) Task Order
7TCJH02.- (Project)

7TCJH02.- Design Efforts for CEV AFT Facilities

Status: Task Order Approved

Originator: Jeff Haught (RC)

PM: Jeff Haught (RC)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: Design Efforts for CEV AFT Facilities

Type: Project

Estimated Start Date: 01/08/2007

Estimated End Date: 01/26/2007

New Mexico Gross Receipt Tax Exempt: No

`cope Of Work: Support for design definition and cost estimating for the design completion of a launch ıcility for the CEV Abort Flight Testing at WSMR

Description Of Work: Support personnel to review and define design definition and provide cost estimates for the comprehensive design of a CEV Abort Flight Testing Launch Facility at White Sands Missle Range.

Products and Services Required: Provide personnel and task completion to complete items listed in General Information, Description of Work, and Deliverable sections of this task order.

Materials and Travel Requirements: No materials are anticipated for this effort. Travel costs associated with personnel movements shall be incorporated in the estimate provided for this TO.

Deliverables:

1. **Specific Deliverable:** Cost Estimate by Labor Category with Time Phasing
   Date or Critical Requirement: 01/19/2007 (Comprehensive Draft Due)

2. **Specific Deliverable:** Schedule for the Design Work Efforts
   Date or Critical Requirement: 01/19/2007 (Comprehensive Draft Due)

3. **Specific Deliverable:** Design Plan w/written definition of the efforts required
   Date or Critical Requirement: 01/19/2007 (Comprehensive Draft Due)

Performance Standard:

The contractor will be evaluated on their ability to plan, schedule, cost estimate and complete negotiated tasks.

Provide timely and consistent delivery of products and services per the schedule requirements outlined in the 'eliverables section and milestones outlined in the task plan. Exceeding expectation evaluations will be provided r improvements that increase the availability, reliability, capacity, performance, and documented knowledge of estimating, planning, and project integration that are gained within the allocated funding for this Task Order.

Scheduling:

Exceeds Expectations: is ahead of the negotiated schedule (SPI > 1.0)

Meets Expectations: is on schedule (SPI = 1.0)

Did not meet Expectations: is behind negotiated schedule (SPI < 1.0)

Cost:

Exceeds Expectations: project is below estimated cost (CPI > 1.0)

Meets Expectations: project is on cost (CPI = 1.0)

Did not meet Expectations: project is overspent, requiring additional funding (CPI <1.0)

Negotiations are performed by task order revision or Change Control Documents that are agreed to and signed by the NASA PM and the Contractor PL

Budget Total: $20,000.00

1. **Fund Source**
   644423.10.21.01.10 CEV Abort Flight Test
   Dollars **Comments**
   $20,000.00

Project Estimate (Contractor Response)

Planned Start Date: 01/08/2007 **Planned Completion Date:** 01/26/2007

Project Lead: Richard Gorham (505) 524-5346

Assumptions and Clarifications to Requirements: Agree.

Specific Deliverables: Agree.

Labor:
Materials:
Travel:
Other:

'otal: $19,853.42

Stock Issues:

Test and Evaluation (TEC) Task Order
7TF1FCE.- (Project)

7TF1FCE.- FY07 Support for FCE Project Office

Status: Task Order Approved

Originator: Sarah Smith (RF)

PM: Sarah Smith (RF)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: FY07 Support for FCE Project Office

Type: Project

Estimated Start Date: 04/01/2007

Estimated End Date: 11/30/2007

New Mexico Gross Receipt Tax Exempt: No

Scope Of Work: This purpose of this project is to provide support for the Flight Crew Equipment Project ffice. This work will include oxygen compatibility assessents and queries, standard testing as requests are received, and intensifier refurbishment and oxygen wetting.

Description Of Work:

Provide support for the FCE project office as requests are received. For the purpose of estimating, please assume the following work will be performed:

-One oxygen compatibility assessment of a single component

-Two oxygen queries

-Standard tests

-Refurbishment and GOX wetting of two intensifiers

Products and Services Required:

Oxygen compatibility assessments

Standard test reports

Refurbished intensifiers

The monthly activity report must include cost on a monthly basis, total spent to date for each activity, a description of queries answered and for whom, and a description of any OCA and standard test work performed or in backlog.

Materials and Travel Requirements: No NASA materials or travel required.

Deliverables:

1. **Specific Deliverable:** Standard test report
   Date or Critical Requirement: Within 30 days of receipt of material

2. **Specific Deliverable:** Monthly report
   Date or Critical Requirement: The close of business on the 15th of each month

3. **Specific Deliverable:** Refurbished intensifiers
   Date or Critical Requirement: 9/28/2007

Performance Standard: Contractor estimate within 10% of actual cost, and completion within 10% of planned duration in working days.

Budget Total: $42,000.00

1. **Fund Source**
   377816.06.02.05.05.05 Shuttle-Shuttle Offline

Dollars	Comments
$42,000.00	This funding is coming from the FY07 ITA (number 6833). A total of $95 k was received (including 30% loading), $16,250 of which was allocated onto 6TF0FCE. This $42,000 represents $54,600 in actual funding once the 30% loading is included. This leaves $24,150 in management reserve (which INCLUDES the 30% loading).

Project Estimate (Contractor Response)

Planned Start Date: 04/01/2007 **Planned Completion Date:** 11/30/2007

Project Lead: Keisa Rosales (505) 524-5354

Assumptions and Clarifications to Requirements: Agree.

Specific Deliverables: Agree.

Labor:
Materials:
Travel:
Other:

Total: $41,977.09

Stock Issues: $0.00

Other $ Comments:

Jsage Fees, Publications, Photo Video, Calibration and Component Services Service Center markups.

Test and Evaluation (TEC) Task Order
7TFSNDE.- (Project)

7TFSNDE.- COPV Stress Rupture NDE

Status: Task Order Approved

Originator: Regor Saulsberry (RF)

PM: Regor Saulsberry (RF)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: COPV Stress Rupture NDE

Type: Project

Estimated Start Date: 12/11/2006

Estimated End Date: 09/27/2007

New Mexico Gross Receipt Tax Exempt: No

Scope Of Work: This effort is advance the state-of-the-art by developing NDE techniques that are capable of sessing stress-rupture degradation in Kevlar COPVs in either a health monitoring mode or a traditional remove and inspect mode. This new NDE capability to monitor stress-rupture degradation will provide a much needed foundation for the follow on NDE efforts for carbon COPVs and the new and emerging organic and hybrid organic/carbon fiber COPVs that will be used in future space missons. The WSTF effort as defined below is part of an agency wide effort.

Description Of Work: This effort is advance the state-of-the-art by developing NDE techniques that are capable of assessing stress-rupture degradation in Kevlar COPVs in either a health monitoring mode or a traditional remove and inspect mode. This new NDE capability to monitor stress-rupture degradation will provide a much needed foundation for the follow on NDE efforts for carbon COPVs and the new and emerging organic and hybrid organic/carbon fiber COPVs that will be used in future space missons. The WSTF effort as defined below is part of an agency wide effort. Detail products and services are shown below.

Products and Services Required:
The WSTF Stress Rupture NDE project is to accomplish subtasks indicated below to support the overall agency wide project.

1. Incorporate WSTF inputs to the FY06 annual report and publish the report by January 31.
2. Accomplish acceptance of the Acoustic Emission system and tensile load test system.
3. Support weekly telecon and provide project management support with agency schedules etc.

Materials and Travel Requirements:

No NASA supplied material other than instrumentation procured in FY06 and Kevlar strands. No travel is

currently needed.

Deliverables:

1. **Specific Deliverable:** Incorporate WSTF inputs to the FY06 annual report and publish the report.
   Date or Critical Requirement: January 11, 2006

2. **Specific Deliverable:** Accomplish acceptance testing of the Acoustic Emission system and the tensile load test system.
   Date or Critical Requirement: January 11, 2006

Performance Standard: Contractor estimate within 10% of actual cost, and completion within 10% of planned duration in working days.

Budget Total: $23,032.00

1. **Fund Source**
   939904.05.05.08.02 JSC-Nondestructive Evaluation (NDE)

Dollars	Comments
$23,032.00	FY07 funding

Project Estimate (Contractor Response)

Planned Start Date: 12/11/2006 **Planned Completion Date:** 09/27/2007

Project Lead: Jess Waller (505) 524-5249

Assumptions and Clarifications to Requirements: Agree.

Specific Deliverables: Agree.

Labor:
Materials:
Travel:
Other:

Total: $23,031.59

Stock Issues:

Other $ Comments:
Publications Service Center markup.

Test and Evaluation (TEC) Task Order
7TFEVAS.- (Project)

7TFEVAS.- EVA Project Office Standard Testing
Status: Task Order Approved

Originator: Sarah Smith (RF)

PM: Sarah Smith (RF)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: EVA Project Office Standard Testing

Type: Project

Estimated Start Date: 01/29/2007

Estimated End Date: 11/15/2007

New Mexico Gross Receipt Tax Exempt: No

Scope Of Work: Conduct standard testing for flight equipment and materials at the request of the EVA project office.

Description Of Work:

Perform standard testing as requested by the EVA project office. This includes test coordination, materials and components storage, materials preparation, testing, and reporting.

In addition, provide monthly report of materials tested, type of test performed, customer, cost, and materials in backlog status.

Products and Services Required:

Standard test reports

Monthly activity reports

Materials and Travel Requirements:

No contractor travel is anticipated.

Materials may be required.

Deliverables:

1. **Specific Deliverable:** Standard test reports

Date or Critical Requirement: Within 30 days of receipt of material

2. **Specific Deliverable:** Monthly activity report
   Date or Critical Requirement: 15th of each month

Performance Standard: Contractor estimate within 10% of actual cost, and completion within 10% of planned duration in working days.

Budget Total: $30,000.00

1. **Fund Source**
   401769.06.06.03.05 Station-EVA Ops

Dollars	Comments
$30,000.00	This is funding coming from ITA 6828. A total of $100k was received (including loading).

Project Estimate (Contractor Response)

Planned Start Date: 01/29/2007 **Planned Completion Date:** 11/15/2007

Project Lead: David Hirsch (505) 524-5532

Assumptions and Clarifications to Requirements: Agree.

pecific Deliverables: Agree.

Labor:
Materials:
Travel:
Other:

Total: $29,973.57

Stock Issues:

Other $ Comments:
Usage Fees and Photo Video Service Center markup.

Test and Evaluation (TEC) Task Order
7TFFOMR.- (Project)

7TFFOMR.- 250, 700 and 800 Area Facility Operations, Maintenance and Repair

Status: Task Order Approved

Originator: Alan Porter (RF)

PM: Alan Porter (RF)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: 250, 700 and 800 Area Facility Operations, Maintenance and Repair

Type: Project

Estimated Start Date: 10/02/2006

Estimated End Date: 05/15/2007

New Mexico Gross Receipt Tax Exempt: No

Scope Of Work: Maintain and repair as necessary the facility systems that are used in the 800, 700 and 250 areas per the applicable system WJIs and WSIs. Additionally, provide personnel who are trained and certified to perform the various types of test, maintenance and fabrication operations that are needed for performing the work that is done in these areas.

Description Of Work:

Provide the basic operational capability and maintenance and repair of the the 250, 700 and 800 area facilities, systems, and equipment so that projects and standard processes can be successfully accomplished. Full scope of work described in "Basic Requirements."

Basic Requirements

The scope in kind of this delivery order is to provide for maintaining the operational readiness of the systems listed below. This comprises the processing of the pressure vessel/system packages for each of these systems as well as maintaining the technical expertise so that when new systems are built, they can be certified properly. Additionally, it involves keeping calibratable items calibrated and keeping the functional certifications of things such as check valves, pressure safety valves and the like in a state of readiness per the applicable calibration recall cycles. Further, it comprises keeping the areas clean and presentable. Area safety inspections, work instruction review, process safety review and waste disposal also need to be performed.

This delivery order also includes provisions for maintaining the certification and training requirements of the personnel who are needed to support the maintenance and testing/operations on the systems listed below. Further, it provides for the need to train and certify new personnel if necessary.

Supervisory activities required for seeing to it that the needed work is done is also covered by this delivery order. This includes supporting safety and readiness reviews as they arise and providing a coordination

function between different test and maintenance activities that take place in the test areas.

See the attached spreadsheet for detailed requirements.

Description of Work Uploaded Files:

FOMR Requirements FY07.xls

Products and Services Required:

See Description of Work section.

Materials and Travel Requirements: No NASA materials or travel required.

Deliverables:

1. **Specific Deliverable:** A list of PV/S activities for the month to include the number completed, the number overdue and the number coming due in the next month. Also, include cost associated with doing the completed packages.
   Date or Critical Requirement: Report will be due at the close of business on the second Monday of each month.

2. **Specific Deliverable:** A list of trainings performed, overdue and anticipated for the next month; and cost associated with doing the training.
   Date or Critical Requirement: Report will be due at the close of business on the second Monday of each month.

3. **Specific Deliverable:** A listing of close-calls, and safety-walk around items identified and the cost associated with addressing them.
   Date or Critical Requirement: Report will be due at the close of business on the second Monday of each month.

Performance Standard: Contractor estimate within 10% of actual cost, and completion within 10% of planned duration in working days.

Budget Total: $346,000.00

1. **Fund Source**
   377816.06.02.05.05.03 Shuttle-Labs Support
   Dollars **Comments**
   $115,000.00

2. **Fund Source**
   814060.05 Test Services-Test Services $
   Dollars **Comments**
   $231,000.00

Project Estimate (Contractor Response)

Planned Start Date: 10/01/2006 **Planned Completion Date:** 05/15/2007

Project Lead: Scott Rohe (505) 524-5754

Assumptions and Clarifications to Requirements: Agree

Specific Deliverables: Agree

Labor:
Materials:
Travel:
Other:

Total: $334,151.46

Stock Issues:

Other $ Comments:

Test and Evaluation (TEC) Task Order
7TFISSM.- (Project)

7TFISSM.- FY07 ISS Standard Materials Testing
Status: Task Order Approved

Originator: Jon Haas (RF)

PM: Jon Haas (RF)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: FY07 ISS Standard Materials Testing

Type: Project

Estimated Start Date: 10/01/2006

Estimated End Date: 09/30/2007

New Mexico Gross Receipt Tax Exempt: No

Scope Of Work: Provide NASA-STD-6001 and consensus methodology testing as required in support of the International Space Station program.

Description Of Work:
Provide testing in accordance with NASA-STD-6001, which may include flammability and ignition susceptibility, odor, offgassing, and compatibility testing. This work may include full configuration testing of payloads and flight items, as well as related consensus methodology such as thermal-vacuum stability testing (SP-R-0022A), autogenous ignition test (ASTM G 72), and thermal conditioning of materials and components.

The performance of testing shall include test coordination, materials and components storage, materials preparation, testing, reporting, certification maintenance, materials control, and test systems and equipment operation and maintenance that are in support of ISS customer requests. The MCT System shall be used to track test information.

These tasks will be performed according to the following processes: WSI-LABPROJS-0001 and LABPROJS-0006, WJI's in the 320-31, 320-34, 800, 800HFF, 800HFT, 800HPT, CHAMLAB, LFACMGMT, LQUALITY, LSAFETY, LTRAING, and PUBS series, RD-WSTF-0018, and RD-WSTF-009. Test protocols are provided in NHB8060.1B or C (NASA-STD-6001), SP-R-0022A, ASTM E 595, ASTM G 72 and Mil-Std-P21840-001, Rev A. Specific protocols will be clarified with the requestor when a conflict arises.

Products and Services Required:
Current Workload Estimate:
(Please provide test-specific configuration assumptions in contractor estimate)

Test Type # Tests

Test 1	9
Test 4	0
Test 6	0
Test 7	(materials) 20
'est 7	(assembled articles) 5
est 13A	2
Test 13B	1
Test 15	0
Test 17	0
VCM testing	5
CTVS Testing	1

Materials and Travel Requirements:
Test materials will need to be procured if not provided by the NASA requestor; No travel is authorized under this T.O.

Deliverables:

1. **Specific Deliverable:** Standard Test Reports (Final report transmitted to JSC)
   Date or Critical Requirement: The JSC customer requires reports to be delivered to JSC within one month of test performance. Therefore, test reports will be delivered to WSTF NASA review within two calendar weeks to provide for appropriate review, correction (if necessary) and transmittal.

2. **Specific Deliverable:** Monthly Status Report
   Date or Critical Requirement: Status Report contains the following information: Materials tested, including the WSTF ID, the material type, tests requested, materials in backlog status, and project cost to date.

3. **Specific Deliverable:**
   Date or Critical Requirement:

Performance Standard:
Project management will be according to DRD-001. Weekly and monthly reporting will be scheduled in the project task plan and evaluated against the DRD requirements and for timeliness and accuracy.

Contractor will be evaluated on cost control within agreed budget and schedule according to task plan and negotiated requirements as they come to WSTF.

Budget Total: $100,000.00

1. **Fund Source**
   401769.06.03.07.02.04 Station-Materials & Processes

Dollars	Comments
$100,000.00	Please provide test-specific configuration assumptions in Contractor Estimate

Project Estimate (Contractor Response)

Planned Start Date: 10/01/2006 **Planned Completion Date:** 09/30/2007

'roject Lead: David Hirsch (505) 524-5532

Assumptions and Clarifications to Requirements: Agree

Specific Deliverables: Agree

Labor:
Materials:
Travel:
Other:

Total: $100,342.16

Stock Issues:

Other $ Comments:

Test and Evaluation (TEC) Task Order
7TFNSEA.- (Project)

7TFNSEA.- NAVSEA Materials Offgassing
Status: Task Order Approved

Originator: Dave Baker (RF)

PM: Dave Baker (RF)

Contractor: Jacobs Sverdrup

Contract: NNJ06HC01C

Title of Effort: NAVSEA Materials Offgassing

Type: Project

Estimated Start Date: 03/21/2007

Estimated End Date: 01/01/2008

New Mexico Gross Receipt Tax Exempt: No

Scope Of Work: The scope of this project is to perform materials offgassing tests in support of the Navy Submarine Atmosphere Material Control Program. Testing will be performed in accordance to TP-WSTF-629 or by customer's written instructions and documented on WSTF form 514.

Description Of Work: The scope of this project is to perform materials offgassing tests in support of the Navy Submarine Atmosphere Material Control Program. Testing will be performed in accordance to TP-WSTF-629 or by customer's written instructions and documented on WSTF form 514. Each test request or will be coordinated between the customer and the Project Leader. The Project leader will provide a cost and schedule analysis for each test request or project activitiy for the NASA Project Manager's concurrence. The contractor will be required to perform the agreed to work and provide project status per DRD 001.

Products and Services Required: DRD 001 Project Status Report as required by Contract: NNJ06HC01C . Each materials test will required a NAVSEA Test Report in accordance to TP-WSTF-629. QA activity is also required in accordance to TP-WSTF-629.

Materials and Travel Requirements: No travel required

Deliverables:

1. **Specific Deliverable:** Completion of DRD 001
   Date or Critical Requirement: Monthly

2. **Specific Deliverable:** Customer Status Report
   Date or Critical Requirement: Weekly

3. **Specific Deliverable:** NAVSEA Materials Test Reprot

Date or Critical Requirement: 2 weeks after QA review of analytical data

erformance Standard: Contractor estimate within 10% of actual cost, and completion within 10% of planned duration in working days. The contractor will be evaluated on response to customers requirements and quality of product (chemical analysis and report)

Budget Total: $145,000.00

1. **Fund Source**
   806866.02.05.0771.01 NAVSEA- N0002407IP00359
   Dollars **Comments**
   $145,000.00

Project Estimate (Contractor Response)

Planned Start Date: 03/21/2007 **Planned Completion Date:** 01/01/2008

Project Lead: Vanessa Buchanan (505) 524-5577

Assumptions and Clarifications to Requirements: Agree.

Specific Deliverables: Agree.

abor:
Materials:
Travel:
Other:

Total: $144,994.82

Stock Issues:

Other $ Comments:
Usage Fees and Publications Service Center markup.