SOLICITATION, OFFER AND AWARD

1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)

2. CONTRACT NO.

3. SOLICITATION NO.

   FA8818-17-R-0002

4. TYPE OF SOLICITATION

   ☑ SEaled BID (IFB)
   ☑ NEGOTIATED (RFP)

5. DATE ISSUED

6. REQUISITION/PURCHASE NO.

7. ISSUED BY SMC/ADK

   CODE FA8818

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

   SMC/ADK
   3548 ABERDEEN AVE SE
   KIRTLAND AFB, NM 87117

   CORRINE E. BACA GONZALES  505-846-9438
   CORRINE.BACA_GONZALES@US.AF.MIL

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

SOLICITATION

10. FOR INFORMATION CALL:

A. NAME

See Block 7

B. TELEPHONE

(Include area code)

(No collect calls)

See Block 7

C. E-MAIL ADDRESS

See Block 7

11. TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>SEC.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>A</td>
<td>SOLICITATION/CONTRACT FORM</td>
</tr>
<tr>
<td>B</td>
<td>SUPPLIES OR SERVICES AND PRICES/COSTS</td>
</tr>
<tr>
<td>C</td>
<td>DESCRIPTION/SPECS./WORK STATEMENT</td>
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<td>D</td>
<td>PACKAGING AND MARKING</td>
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<td>H</td>
<td>SPECIAL CONTRACT REQUIREMENTS</td>
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12. In compliance with the above, the undersigned agrees, if this offer is accepted within __________ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date of 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)

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<th>20 CALENDAR DAYS</th>
<th>30 CALENDAR DAYS</th>
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14. ACKNOWLEDGEMENTS OF AMENDMENTS

(The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:)

15A. NAME AND ADDRESS OF OFFEROR

CODE

FACILITY

15B. TELEPHONE NO. (Include area code)

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

16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)

17. SIGNATURE

18. OFFER DATE

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 ITEM (4 copies unless otherwise specified)

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

28. AWARD DATE

Signature of Contracting Officer

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.
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Noun: SPACE VEHICLE ASSEMBLY AND INTEGRATION, AND TEST
PSC: AC24
NSN: N - Not Applicable
DD1423 is Exhibit: A
Contract type: J - FIRM FIXED PRICE
Inspection: SOURCE
Acceptance: SOURCE
FOB: SOURCE

Descriptive Data:
The contractor shall furnish the necessary qualified personnel, material, facilities, supplies, and services to accomplish the objectives and requirements contained in Statement of Work (SOW), par 3 and Appendices A & B dated 08 Dec 2016. Spacecraft delivery will be IAW SOW par 3. The estimated Delivery/Performance Schedule is from 1 May 2017 to 2 Jul 2018. All Data for this effort shall be included in CLIN 0002, Data Not Separately Priced (NSP).

FFP: $______________________________

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Noun: DATA & REPORTS
PSC: AC24
NSN: N - Not Applicable
DD1423 is Exhibit: A
Contract type: J - FIRM FIXED PRICE
Inspection: SOURCE
Acceptance: SOURCE
FOB: SOURCE

Descriptive Data:
The contractor shall furnish data associated with CLIN 0001 in accordance with Exhibit A, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Delivery/Performance Schedule is from 1 May 2017 to 2 Jul 2018.
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Noun: TRAVEL

PSC: AC24

Contract type: S - COST

Start Date: ASREQ

Completion Date: ASREQ

Descriptive Data:
The contractor shall furnish the necessary travel to accomplish the objectives and requirements contained in the Statement of Work (SOW), inclusive dated 08 Dec 2016. One (1) Task.

The prime contractor or subcontractor/s may be required to travel in support of the entire effort. The non-fee bearing travel costs shall be reimbursed in accordance with the Federal Travel Regulation (FTR) and FAR 31.205-46, Travel Costs. Travel requests shall be approved by the assigned Contracting Officers Representative (COR).

This CLIN has a Not-To-Exceed (NTE) amount. This is a cost CLIN only, **no fee**.

Estimated Cost NTE: $54,000

COST:

$_____________________

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Noun: PAYLOAD INTEGRATION

PSC: AC24

NSN: N - Not Applicable

DD1423 is Exhibit: B

Contract type: U - COST PLUS FIXED FEE

Inspection: DESTINATION

Acceptance: DESTINATION

FOB: DESTINATION

Descriptive Data:
The contractor shall furnish the necessary qualified personnel, material, facilities, supplies, and services to accomplish the objectives and requirements contained in Statement of Work (SOW), par 4.1-4.7 and Appendix A dated 08 Dec 2016. Spacecraft delivery will be IAW SOW 4.7 and Appendix C. The estimated Delivery/Performance Schedule is from 1 Feb 2018 to 1 Jul 2019. All Data for this effort shall be included in CLIN 1002, Data Not Separately Priced (**NSP**). One (1) Task.

CPFF:

COST FIXED FEE TOTAL

$____________________ $____________________ $____________________
### ITEM 1002

**Noun:** DATA & REPORTS  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** B  
**Contract type:** U - COST PLUS FIXED FEE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION  

**Descriptive Data:**  
The contractor shall furnish data associated with CLIN 1001 in accordance with Exhibit B, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Delivery/Performance Schedule is from 1 Feb 2018 to 1 Jul 2019. One (1) Task.

---

### ITEM 1003

**Noun:** LAUNCH SERVICES SUPPORT  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** C  
**Contract type:** U - COST PLUS FIXED FEE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION  

**Descriptive Data:**  
The contractor shall furnish the necessary qualified personnel, material, facilities, supplies, and services to accomplish the objectives and requirements contained in Statement of Work (SOW), par 4.7-4.11 and Appendix A dated 08 Dec 2016. The estimated Performance Schedule is from 1 Jun 2018 to 1 Oct 2019. All Data for this effort shall be included in CLIN 1004, Data Not Separately Priced (NSP). One (1) Task.

**CPFF:**

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## PART I - THE SCHEDULE

### SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

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**Noun:** DATA & REPORTS  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** C  
**Contract type:** U - COST PLUS FIXED FEE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION  

**Descriptive Data:**  
The contractor shall furnish data associated with CLIN 1003 in accordance with Exhibit C, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Performance Schedule is from 1 Jun 2018 to 1 Oct 2019. One (1) Task.

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**Noun:** ON-ORBIT & ANOMALY SUPPORT, SOFTWARE UPGRADES  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** D  
**Contract type:** U - COST PLUS FIXED FEE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION  

**Descriptive Data:**  
On-Orbit & Anomaly Support and any Software Upgrades as necessary. The contractor shall furnish the necessary qualified personnel, material, facilities, supplies and services to accomplish the objectives and requirements contained in Statement of Work (SOW), par 5, dated 08 Dec 2016. The estimated Performance Schedule is from 1 Feb 2019 to 31 Jul 2020. All Data shall be included in CLIN 1006, Not Separately Priced (NSP). One (1) Task.

**CPFF:**

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**Noun:** DATA & REPORTS  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** D  
**Contract type:** U - COST PLUS FIXED FEE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION

**Descriptive Data:**  
The contractor shall furnish data associated with CLIN 1005 in accordance with Exhibit D, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Performance Schedule is from 1 Feb 2019 to 31 May 2020. One (1) Task.

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### OPTION CLIN (supply)

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**Noun:** SPACE VEHICLE ASSEMBLY AND INTEGRATION, AND TEST  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** E  
**Contract type:** J - FIRM FIXED PRICE  
**Inspection:** SOURCE  
**Acceptance:** SOURCE  
**FOB:** SOURCE

**Descriptive Data:**  
The contractor shall furnish the necessary qualified personnel, material, facilities, supplies, and services to accomplish the objectives and requirements contained in Statement of Work (SOW), par 3 and Appendices A & B dated 08 Dec 2016. Spacecraft delivery will be IAW SOW. The estimated Delivery/Performance Schedule is from 1 May 2018 to 2 Jul 2019. All Data for this effort shall be included in CLIN 2002, Data Not Separately Priced (NSP).

**FFP:** $______________________________
2002

OPTION CLIN (supply)

Noun: DATA & REPORTS
PSC: AC24
NSN: N - Not Applicable
DD1423 is Exhibit: E
Contract type: J - FIRM FIXED PRICE
Inspection: SOURCE
Acceptance: SOURCE
FOB: SOURCE

Descriptive Data:
The contractor shall furnish data associated with CLIN 2001 in accordance with Exhibit E, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Delivery/Performance Schedule is from 1 May 2018 to 2 Jul 2019. One (1) Task.

2003

OPTION CLIN

Noun: PAYLOAD INTEGRATION
PSC: AC24
NSN: N - Not Applicable
DD1423 is Exhibit: F
Contract type: U - COST PLUS FIXED FEE
Inspection: DESTINATION
Acceptance: DESTINATION
FOB: DESTINATION

Descriptive Data:
The contractor shall furnish the necessary qualified personnel, material, facilities, supplies, and services to accomplish the objectives and requirements contained in Statement of Work (SOW), par 4.1 - 4.7 dated 08 Dec 2016. Spacecraft delivery will be IAW SOW 4.7 and Appendix C. The estimated Delivery/Performance Schedule is from 1 Feb 2019 to 1 Jul 2020. All Data for this effort shall be included in CLIN 2004, Data Not Separately Priced (NSP). One (1) Task.

CPFF:

COST FIXED FEE TOTAL
$_________________ $___________ $________________________
### ITEM SUPPLIES OR SERVICES

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**Noun:** DATA & REPORTS  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** F  
**Contract type:** U - COST PLUS FIXED FEE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION

**Descriptive Data:**  
The contractor shall furnish data associated with CLIN 2003 in accordance with Exhibit F, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Delivery/Performance Schedule is from 1 Feb 2019 to 1 Jul 2020. One (1) Task.

| 2005 | OPTION CLIN (supply) |     |                |            |                  |

**Noun:** LONG-LEAD PARTS  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**Contract type:** J - FIRM FIXED PRICE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION

**Descriptive Data:**  
The contractor shall furnish the necessary material to accomplish the objectives and requirements contained in Statement of Work (SOW), par 3 and Appendix A dated 08 Dec 2016. The estimated Delivery/Performance Schedule is as required. One (1) Unit.

**Firm Fixed Price:**  
FFP $___________________________
### SUPPLIES OR SERVICES AND PRICES/COSTS

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**Noun:** LAUNCH SERVICES  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** G  
**Contract type:** U - COST PLUS FIXED FEE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION

**Descriptive Data:**  
The contractor shall furnish the necessary qualified personnel, material, facilities, supplies, and services to accomplish the objectives and requirements contained in Statement of Work (SOW), par 4.7 - 4.11 dated 08 Dec 2016. The estimated Performance Schedule is from 1 Jun 2019 to 1 Oct 2020. All Data for this effort shall be included in CLIN 2007, Data Not Separately Priced (NSP). One (1) Task.

**CPFF:**

**COST**

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**2007**

**OPTION CLIN**

**Noun:** DATA & REPORTS  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** G  
**Contract type:** U - COST PLUS FIXED FEE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION

**Descriptive Data:**  
The contractor shall furnish data associated with CLIN 2006 in accordance with Exhibit G, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Performance Schedule is from 1 Jun 2019 to 1 Oct 2020. One (1) Task.
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|       | CPFF:                                             |     |            |                  |
|       | COST     | FIXED FEE | TOTAL                      |
|       | $_________ | $_________ | $________________________ |

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Noun: SPACE VEHICLE ASSEMBLY AND INTEGRATION, AND TEST

PSC: AC24

NSN: N - Not Applicable

DD1423 is Exhibit: K

Contract type: J - FIRM FIXED PRICE

Inspection: DESTINATION

Acceptance: DESTINATION

FOB: DESTINATION

Descriptive Data:
The contractor shall furnish the necessary qualified personnel, material, facilities, supplies, and services to accomplish the objectives and requirements contained in, Statement of Work (SOW), par 3 and Appendices A & B dated 08 Dec 2016. spacecraft delivery will be IAW SOW. The estimated Delivery/Performance Schedule is from 1 Nov 2018 to 2 Jan 2020. All Data for this effort shall be included in CLIN 3002, Data Not Separately Priced (NSP). One (1) Unit.

FFP $______________________________

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<tr>
<th>ITEM</th>
<th>SUPPLIES OR SERVICES</th>
<th>Qty</th>
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<th>Unit Price</th>
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Noun: DATA & REPORTS

PSC: AC24

NSN: N - Not Applicable

DD1423 is Exhibit: K

Contract type: J - FIRM FIXED PRICE

Inspection: DESTINATION

Acceptance: DESTINATION

FOB: DESTINATION

Descriptive Data:
The contractor shall furnish data associated with CLIN 3001 in accordance with Exhibit K, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Delivery/Performance Schedule is from 1 Nov 2018 to 2 Jan 2020. One (1) Task.
ITEM | SUPPLIES OR SERVICES | Qty | Purch Unit | Unit Price | Total Item Amount
------|----------------------|-----|------------|------------|------------------
3003  | OPTION CLIN          |     |            |            |                  

Noun: PAYLOAD INTEGRATION
PSC: AC24
NSN: N - Not Applicable
DD1423 is Exhibit: L
Contract type: U - COST PLUS FIXED FEE
Inspection: DESTINATION
Acceptance: DESTINATION
FOB: DESTINATION

Descriptive Data:
The contractor shall furnish the necessary qualified personnel, material, facilities, supplies, and services to accomplish the objectives and requirements contained in Statement of Work (SOW), par 4.1 - 4.7 dated 08 Dec 2016. Spacecraft delivery will be IAW SOW 4.7 and Appendix C. The estimated Delivery/Performance Schedule is from 1 Aug 2019 to 1 Jan 2021. All Data for this effort shall be included in CLIN 3004, Data Not Separately Priced (NSP). One (1) Task.

CPFF:

COST | FIXED FEE | TOTAL
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3004  | OPTION CLIN          |     |            |            |                  

Noun: DATA & REPORTS
PSC: AC24
NSN: N - Not Applicable
DD1423 is Exhibit: L
Contract type: U - COST PLUS FIXED FEE
Inspection: DESTINATION
Acceptance: DESTINATION
FOB: DESTINATION

Descriptive Data:
The contractor shall furnish data associated with CLIN 3003 in accordance with Exhibit L, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Delivery/Performance Schedule is from 1 Aug 2019 to 1 Jan 2021. One (1) Task.
### SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

#### PART I - THE SCHEDULE

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<td>The contractor shall furnish the necessary material to accomplish the objectives and requirements contained in Attachment 1, Statement of Work (SOW), par 3 dated 08 Dec 2016. The estimated Delivery/Performance Schedule is as required. One (1) Unit.</td>
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<td>The contractor shall furnish the necessary qualified personnel, material, facilities, supplies, and services to accomplish the objectives and requirements contained in Attachment 1, Statement of Work (SOW), par 4.7 - 4.1 dated 08 Dec 2016. The estimated Performance Schedule is from 1 Dec 2019 to 1 Apr 2021. All Data for this effort shall be included in CLIN 3007, Data Not Separately Priced (NSP). One (1) Task.</td>
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### ITEM 3007

**OPTION CLIN**

- **Noun:** DATA & REPORTS
- **PSC:** AC24
- **NSN:** N - Not Applicable
- **DD1423 is Exhibit:** M
- **Contract type:** U - COST PLUS FIXED FEE
- **Inspection:** DESTINATION
- **Acceptance:** DESTINATION
- **FOB:** DESTINATION

**Descriptive Data:**
The contractor shall furnish data associated with CLIN 3006 in accordance with Exhibit M, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Performance Schedule is from 1 Dec 2019 to 1 Apr 2021. One (1) Task.

### ITEM 3008

**OPTION CLIN**

- **Noun:** ON-ORBIT & ANOMALY SUPPORT, SOFTWARE UPGRADES
- **PSC:** AC24
- **NSN:** N - Not Applicable
- **DD1423 is Exhibit:** N
- **Contract type:** U - COST PLUS FIXED FEE
- **Inspection:** DESTINATION
- **Acceptance:** DESTINATION
- **FOB:** DESTINATION

**Descriptive Data:**
On-Orbit & Anomaly Support and any Software Upgrades as necessary. The contractor shall furnish the necessary qualified personnel, material, facilities, supplies and services to accomplish the objectives and requirements contained in Attachment 1, Statement of Work (SOW), par 5, dated 08 Dec 2016. The estimated Performance Schedule is from 1 Aug 2020 to 31 Jan 2022. All Data shall be included in CLIN 3009, Not Separately Priced (NSP). One (1) Task.

**CPFF:**

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<th>COST</th>
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## PART I - THE SCHEDULE
### SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

<table>
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<th>ITEM</th>
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**Noun:** DATA & REPORTS  
**PSC:** AC24  
**NSN:** N - Not Applicable  
**DD1423 is Exhibit:** N  
**Contract type:** U - COST PLUS FIXED FEE  
**Inspection:** DESTINATION  
**Acceptance:** DESTINATION  
**FOB:** DESTINATION

**Descriptive Data:**  
The contractor shall furnish data associated with CLIN 3008 in accordance with Exhibit N, Contract Data Requirements List (DD Form 143), Section J. Data requirements are Not Separately Priced (NSP). The estimated Performance Schedule is from 1 Aug 2020 to 31 Nov 2021. One (1) Task.
NO CLAUSES OR PROVISIONS IN THIS SECTION
NO CLAUSES OR PROVISIONS IN THIS SECTION
NO CLAUSES OR PROVISIONS IN THIS SECTION
**NOTICE:** The following contract clauses pertinent to this section are hereby incorporated by reference:

### A. FEDERAL ACQUISITION REGULATION CONTRACT CLAUSES

<table>
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<th>Clause</th>
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<td>52.246-07</td>
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<td>52.246-08</td>
<td>INSPECTION OF RESEARCH AND DEVELOPMENT -- COST-REIMBURSEMENT (MAY 2001)</td>
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### B. DEFENSE FEDERAL ACQUISITION REGULATION SUPPLEMENT CONTRACT CLAUSES

<table>
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<td>ITEM</td>
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<td>0002</td>
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<td>Noun:</td>
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</table>
NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

FEDERAL ACQUISITION REGULATION CONTRACT CLAUSES

52.211-11 LIQUIDATED DAMAGES -- SUPPLIES, SERVICES, OR RESEARCH AND DEVELOPMENT (SEP 2000)
Para (a). Liquidated damages per calendar day. ‘?????’

52.242-15 STOP-WORK ORDER (AUG 1989)

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

52.247-34 F.O.B. DESTINATION (NOV 1991)
NOTICE: The following contract clauses pertinent to this section are hereby incorporated in full text:

A. DEFENSE FAR SUPP CONTRACT CLAUSES IN FULL TEXT

252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (MAY 2013)

(a) Definitions. As used in this clause-

“Department of Defense Activity Address Code (DoDAAC)” is a six position code that uniquely identifies a unit, activity, or organization.

“Document type” means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

“Local processing office (LPO)” is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) Electronic invoicing. The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall—

(1) Have a designated electronic business point of contact in the System for Award Management at https://www.acquisition.gov; and

(2) Be registered to use WAWF at https://wawf.eb.mil/ following the step-by-step procedures for self-registration available at this web site.

(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the “Web Based Training” link on the WAWF home page at https://wawf.eb.mil/

(e) WAWF methods of document submission. Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) WAWF payment instructions. The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:

(1) Document type. The Contractor shall use the following document type(s). Invoice 2-in-1 (Services Only).

Note: If a “Combo” document type is identified but not supportable by the Contractor’s business systems, an “Invoice” (stand-alone) and “Receiving Report” (stand-alone) document type may be used instead.

(2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.

N/A
(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table*
Field Name in WAWF  Data to be entered in WAWF
Pay Official DoDAAC  _____ (Insert Pay Official DoDAAC or N/A)
Issue By DoDAAC  FA8818
Admin DoDAAC  _____ (Insert Admin DoDAAC or N/A)
Inspect By DoDAAC  FA8818
Ship To Code  N/A
Ship From Code  N/A
Mark For Code  N/A
Service Approver (DoDAAC)  FA8818
Service Acceptor (DoDAAC)  FA8818
Accept at Other DoDAAC  N/A
LPO DoDAAC  N/A
DCAA Auditor DoDAAC  N/A
Other DoDAAC(s)  N/A

(*Contracting Officer: Insert applicable DoDAAC information or “See schedule" if multiple ship to/acceptance locations apply, or “Not applicable.”)

(4) Payment request and supporting documentation. The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.

(5) WAWF email notifications. The Contractor shall enter the e-mail address identified below in the “Send Additional Email Notifications” field of WAWF once a document is submitted in the system.

   Edgar Alonso-Bernal, edgar.alonsobernal@us.af.mil

(g) WAWF point of contact.

   (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity’s WAWF point of contact.

   _____ (Contracting Officer: Insert applicable information or “Not applicable.”)

   (2) For technical WAWF help, contact the WAWF helpdesk at 866-618-5988.

B. OTHER CONTRACT CLAUSES IN FULL TEXT

252.204-0002 LINE ITEM SPECIFIC: SEQUENTIAL ACRN ORDER (SEP 2009)

The payment office shall make payment in sequential ACRN order within the line item, exhausting all funds in the previous ACRN before paying from the next ACRN using the following sequential order: Alpha/Alpha; Alpha/numeric; numeric/alpha; and numeric/numeric.

252.204-0009 CONTRACT-WIDE: BY FISCAL YEAR (SEP 2009)

The payment office shall make payment using the oldest fiscal year appropriations first, exhausting all funds in the previous fiscal year before disbursing from the next fiscal year. In the event there is more than one ACRN associated with the same fiscal year, the payment amount shall be disbursed from each ACRN within a fiscal year in the same proportion as the amount of funding obligated for each ACRN within the fiscal year.
NO CLAUSES OR PROVISIONS IN THIS SECTION
Contract Clauses in this section are from the FAR, Defense FAR Sup, Air Force FAR Sup, and the Air Force Materiel Command FAR Sup, and are current through the following updates:


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

A. FEDERAL ACQUISITION REGULATION CONTRACT CLAUSES

52.202-01 DEFINITIONS (NOV 2013)
52.203-03 GRATUITIES (APR 1984)
52.203-05 COVENANT AGAINST CONTINGENT FEES (MAY 2014)
52.203-06 RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (SEP 2006)
52.203-07 ANTI-KICKBACK PROCEDURES (MAY 2014)
52.203-08 CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (MAY 2014)
52.203-10 PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY (MAY 2014)
52.203-12 LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (OCT 2010)
52.203-13 CONTRACTOR CODE OF BUSINESS ETHICS AND CONDUCT (OCT 2015)
52.203-17 CONTRACTOR EMPLOYEE WHISTLEBLOWER RIGHTS AND REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS (APR 2014)
52.204-02 SECURITY REQUIREMENTS (AUG 1996)
52.204-04 PRINTED OR COPIED DOUBLE-SIDED ON POSTCONSUMER FIBER CONTENT PAPER (MAY 2011)
52.204-09 PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011)
52.204-10 REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (OCT 2015)
52.204-13 SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (JUL 2013)
52.204-14 SERVICE CONTRACT REPORTING REQUIREMENTS (JAN 2014)
52.204-19 INCORPORATION BY REFERENCE OF REPRESENTATIONS AND CERTIFICATIONS (DEC 2014)
52.204-21 BASIC SAFEGUARDING OF COVERED CONTRACTOR INFORMATION SYSTEMS (JUN 2016)
52.208-08 REQUIRED SOURCES FOR HELIUM AND HELIUM USAGE DATA (APR 2014)
52.209-06 PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (OCT 2015)
52.209-09 UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS (JUL 2013)
52.209-10 PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS (NOV 2015)
52.210-01 MARKET RESEARCH (APR 2011)
52.211-05 MATERIAL REQUIREMENTS (AUG 2000)
52.215-02 AUDIT AND RECORDS -- NEGOTIATION (OCT 2010)
52.215-08 ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT (OCT 1997)
52.215-14 INTEGRITY OF UNIT PRICES (OCT 2010)
52.215-14 INTEGRITY OF UNIT PRICES (OCT 2010) - ALTERNATE I (OCT 1997)
52.215-15 PENSION ADJUSTMENTS AND ASSET REVERSIONS (OCT 2010)
52.215-17 WAIVER OF FACILITIES CAPITAL COST OF MONEY (OCT 1997)
52.215-18 REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS
(PR8) OTHER THAN PENSIONS (JUL 2005)
52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)
52.215-21 REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER
THAN CERTIFIED COST OR PRICING DATA--MODIFICATIONS (OCT 2010)
52.215-23 LIMITATIONS ON PASS-THROUGH CHARGES (OCT 2009)
52.215-23 LIMITATIONS ON PASS-THROUGH CHARGES (OCT 2009) - ALTERNATE I (OCT
2009)
52.216-07 ALLOWABLE COST AND PAYMENT (JUN 2013)
52.216-08 FIXED FEE (JUN 2011)
52.216-11 COST CONTRACT -- NO FEE (APR 1984)
52.217-07 OPTION FOR INCREASED QUANTITY -- SEPARATELY PRICED LINE ITEM (MAR
1989)
  Period of time is '30 days'
52.219-09 SMALL BUSINESS SUBCONTRACTING PLAN (DEVIATION) (AUG 2016)
52.219-09 SMALL BUSINESS SUBCONTRACTING PLAN (OCT 2014) - ALTERNATE II (OCT
2001)
52.219-14 LIMITATIONS ON SUBCONTRACTING (NOV 2011)
52.219-16 LIQUIDATED DAMAGES -- SUBCONTRACTING PLAN (JAN 1999)
52.219-28 POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (JUL 2013)
52.222-01 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)
52.222-02 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)
  Para (a), Dollar amount is '$0.00'
52.222-03 CONVICT LABOR (JUN 2003)
52.222-21 PROHIBITION OF SEGREGATED FACILITIES (APR 2015)
52.222-26 EQUAL OPPORTUNITY (SEP 2016)
52.222-35 EQUAL OPPORTUNITY FOR VETERANS (OCT 2015)
52.222-36 EQUAL OPPORTUNITY FOR WORKERS WITH DISABILITIES (JUL 2014)
52.222-37 EMPLOYMENT REPORTS ON VETERANS (FEB 2016)
52.222-40 NOTIFICATION OF EMPLOYEE RIGHTS UNDER THE NATIONAL LABOR RELATIONS
ACT (DEC 2010)
52.222-50 COMBATING TRAFFICKING IN PERSONS (MAR 2015)
52.222-54 EMPLOYMENT ELIGIBILITY VERIFICATION (OCT 2015)
52.223-05 POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (MAY 2011)
52.223-05 POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (MAY 2011) -
  ALTERNATE I (MAY 2011)
52.223-05 POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (MAY 2011) -
  ALTERNATE II (MAY 2011)
52.223-06 DRUG-FREE WORKPLACE (MAY 2001)
52.223-07 NOTICE OF RADIOACTIVE MATERIALS (JAN 1997)
  Para (a), Number of days is 'TBD'
52.223-10 WASTE REDUCTION PROGRAM (MAY 2011)
52.223-11 OZONE-DEPLETING SUBSTANCES AND HIGH GLOBAL WARMING POTENTIAL
HYDROFLUOROCARBONS (JUN 2016)
52.223-18 ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE
DRIVING (AUG 2011)
52.223-20 AEROSOLS (JUN 2016)
52.223-21 FOAMS (JUN 2016)
52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUN 2008)
52.227-01 AUTHORIZATION AND CONSENT (DEC 2007) - ALTERNATE I (APR 1984)
52.227-02 NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT
INFRINGEMENT (DEC 2007)
52.227-10 FILING OF PATENT APPLICATIONS -- CLASSIFIED SUBJECT MATTER (DEC 2007)
52.228-05 INSURANCE -- WORK ON A GOVERNMENT INSTALLATION (JAN 1997)
52.228-07 INSURANCE -- LIABILITY TO THIRD PERSONS (MAR 1996)
52.229-03 FEDERAL, STATE, AND LOCAL TAXES (FEB 2013)
52.230-02 COST ACCOUNTING STANDARDS (OCT 2015)
52.230-06 ADMINISTRATION OF COST ACCOUNTING STANDARDS (JUN 2010)
52.232-09 LIMITATION ON WITHHOLDING OF PAYMENTS (APR 1984)
52.232-16 PROGRESS PAYMENTS (APR 2012)
52.232-16 PROGRESS PAYMENTS (APR 2012) - ALTERNATE I (MAR 2000)
52.232-17 INTEREST (MAY 2014)
52.232-18 AVAILABILITY OF FUNDS (APR 1984)
52.232-20 LIMITATION OF COST (APR 1984)
52.232-22 LIMITATION OF FUNDS (APR 1984)
52.232-23 ASSIGNMENT OF CLAIMS (MAY 2014) - ALTERNATE I (APR 1984)
52.232-25 PROMPT PAYMENT (JUL 2013)
52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER - SYSTEM FOR AWARD MANAGEMENT (JUL 2013)
52.232-39 UNENFORCEABILITY OF UNAUTHORIZED OBLIGATIONS (JUN 2013)
52.232-40 PROVIDING ACCELERATED PAYMENTS TO SMALL BUSINESS SUBCONTRACTORS (DEC 2013)
52.233-01 DISPUTES (MAY 2014)
52.233-03 PROTEST AFTER AWARD (AUG 1996)
52.233-03 PROTEST AFTER AWARD (AUG 1996) - ALTERNATE I (JUN 1985)
52.233-04 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (JAN 1997)
52.233-04 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004)
52.237-02 PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT AND VEGETATION (APR 1984)
52.242-01 NOTICE OF INTENT TO DISALLOW COSTS (APR 1984)
52.242-03 PENALTIES FOR UNALLOWABLE COSTS (MAY 2014)
52.242-04 CERTIFICATION OF FINAL INDIRECT COSTS (JAN 1997)
52.242-13 BANKRUPTCY (JUL 1995)
52.243-01 CHANGES -- FIXED-PRICE (AUG 1987) - ALTERNATE V (APR 1984)
52.243-02 CHANGES -- COST-REIMBURSEMENT (AUG 1987) - ALTERNATE V (APR 1984)
52.243-06 CHANGE ORDER ACCOUNTING (APR 1984)
52.243-07 NOTIFICATION OF CHANGES (APR 1984)
Para (b), Number of calendar days is (insert 30 for RDSS/C) '30'
Para (d), Number of calendar days is (insert 30 for RDSS/C) '30'
52.244-02 SUBCONTRACTS (OCT 2010)
Para (d), approval required on subcontracts: 'TBD'
Para (j), Insert subcontracts evaluated during negotiations. 'TBD'
52.244-05 COMPETITION IN SUBCONTRACTING (DEC 1996)
52.244-06 SUBCONTRACTS FOR COMMERCIAL ITEMS (SEP 2016)
52.245-01 GOVERNMENT PROPERTY (APR 2012)
52.245-01 GOVERNMENT PROPERTY (APR 2012) - ALTERNATE I (APR 2012)
52.245-09 USE AND CHARGES (APR 2012)
52.246-23 LIMITATION OF LIABILITY (FEB 1997)
52.246-24 LIMITATION OF LIABILITY -- HIGH-VALUE ITEMS (FEB 1997) - ALTERNATE I (APR 1984)
52.247-01 COMMERCIAL BILL OF LADING NOTATIONS (FEB 2006)
52.247-67 SUBMISSION OF TRANSPORTATION DOCUMENTS FOR AUDIT (FEB 2006)
Para (c). Insert address. 'SMC/ADK 3548 Aberdeen Drive Kirtland AFB, NM 87117'
52.247-68 REPORT OF SHIPMENT (REPSHIP) (FEB 2006)
52.249-02 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (APR 2012)
52.249-06 TERMINATION (COST-REIMBURSEMENT) (MAY 2004)
52.249-09 DEFAULT (FIXED-PRICE RESEARCH AND DEVELOPMENT) (APR 1984)
52.249-14 EXCUSABLE DELAYS (APR 1984)
52.251-01 GOVERNMENT SUPPLY SOURCES (APR 2012)
52.253-01 COMPUTER GENERATED FORMS (JAN 1991)
B. DEFENSE FEDERAL ACQUISITION REGULATION SUPPLEMENT CONTRACT CLAUSES

252.201-7000 CONTRACTING OFFICER'S REPRESENTATIVE (DEC 1991)
252.203-7000 REQUIREMENTS RELATING TO COMPENSATION OF FORMER DOD OFFICIALS (SEP 2011)
252.203-7001 PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE-CONTRACT-RELATED FELONIES (DEC 2008)
252.203-7002 REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS (SEP 2013)
252.203-7003 AGENCY OFFICE OF THE INSPECTOR GENERAL (DEC 2012)
252.203-7004 DISPLAY OF HOTLINE POSTERS (OCT 2015)
Para (b)(2). C.O. enters contact information. '?????'
252.204-7003 CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT (APR 1992)
252.204-7005 ORAL ATTESTATION OF SECURITY RESPONSIBILITIES (NOV 2001)
252.204-7006 REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS (SEP 2013)
Para (a)(1). CO inserts PM name, address, email, phone, and fax number. 'PM: David Shultz, 3548 Aberdeen Drive Kirtland AFB, NM 87117 Phone:(505) 853-6100 Email: david.shultz.5@us.af.mil'
252.209-7004 SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A COUNTRY THAT IS A STATE SPONSOR OF TERRORISM (OCT 2015)
252.211-7003 ITEM UNIQUE IDENTIFICATION AND VALUATION (MAR 2016)
Para (c)(1)(i). Insert Contract Line, Subline, or Exhibit Line Item Number and Item Description or n/a. 'N/A'
Para (c)(1)(ii). Identify Contract Line, Subline, or Exhibit Line Item Nr and Item Description. If items are identified in the Schedule, insert "See Schedule" 'N/A'
Para (c)(1)(iii). Attachment Nr. 'N/A'
Para (c)(1)(iv). Attachment Nr. 'N/A'
Para (f)(2)(iii). Line item number or n/a. 'N/A'
252.211-7006 PASSIVE RADIO FREQUENCY IDENTIFICATION (JUN 2016)
252.211-7007 REPORTING OF GOVERNMENT-FURNISHED PROPERTY (AUG 2012)
252.211-7008 USE OF GOVERNMENT-ASSIGNED SERIAL NUMBERS (SEP 2010)
252.216-7009 ALLOWABILITY OF LEGAL COSTS INCURRED IN CONNECTION WITH A WHISTLEBLOWER PROCEEDING (SEP 2013)
252.219-7003 SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS) -- BASIC (MAR 2016)
252.223-7001 HAZARD WARNING LABELS (DEC 1991)
252.223-7002 SAFETY PRECAUTIONS FOR AMMUNITION AND EXPLOSIVES (MAY 1994)
252.223-7003 CHANGE IN PLACE OF PERFORMANCE -- AMMUNITION AND EXPLOSIVES (DEC 1991)
252.223-7004 DRUG-FREE WORK FORCE (SEP 1988)
252.223-7005 PROHIBITION ON STORAGE, TREATMENT, AND DISPOSAL OF TOXIC OR HAZARDOUS MATERIALS - BASIC (SEP 2014)
252.225-7008 RESTRICTION ON ACQUISITION OF SPECIALTY METALS (MAR 2013)
252.225-7009 RESTRICTION ON ACQUISITION OF CERTAIN ARTICLES CONTAINING SPECIALTY METALS (OCT 2014)
252.225-7012 PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES (AUG 2016)
252.225-7017 PHOTOVOLTAIC DEVICES (SEP 2016)
252.225-7030 RESTRICTION ON ACQUISITION OF CARBON, ALLOY, AND ARMOR STEEL PLATE (DEC 2006)
252.225-7048 EXPORT-CONTROLLED ITEMS (JUN 2013)
252.226-7001  UTILIZATION OF INDIAN ORGANIZATIONS, INDIAN-OWNED ECONOMIC ENTERPRISES, AND NATIVE HAWAIIAN SMALL BUSINESS CONCERNS (SEP 2004)
252.227-7013  RIGHTS IN TECHNICAL DATA--NONCOMMERCIAL ITEMS (FEB 2014)
252.227-7016  RIGHTS IN BID OR PROPOSAL INFORMATION (JAN 2011)
252.227-7025  LIMITATIONS ON THE USE OR DISCLOSURE OF GOVERNMENT-FURNISHED INFORMATION MARKED WITH RESTRICTIVE LEGENDS (MAY 2013)
252.227-7027  DEFERRED ORDERING OF TECHNICAL DATA OR COMPUTER SOFTWARE (APR 1988)
252.227-7030  TECHNICAL DATA--WITHHOLDING OF PAYMENT (MAR 2000)
252.227-7037  VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA (SEP 2016)
252.227-7038  PATENT RIGHTS--OWNERSHIP BY THE CONTRACTOR (LARGE BUSINESS) (JUN 2012)
252.228-7001  GROUND AND FLIGHT RISK (JUN 2010)
252.231-7000  SUPPLEMENTAL COST PRINCIPLES (DEC 1991)
252.232-7003  ELECTRONIC SUBMISSION OF PAYMENT REQUESTS AND RECEIVING REPORTS (JUN 2012)
252.232-7004  DOD PROGRESS PAYMENT RATES (OCT 2014)
252.232-7010  LEVIES ON CONTRACT PAYMENTS (DEC 2006)
252.235-7003  FREQUENCY AUTHORIZATION - BASIC (MAR 2014)
252.235-7003  FREQUENCY AUTHORIZATION - ALTERNATE I (MAR 2014) - ALTERNATE I (MAR 2014)
252.235-7010  ACKNOWLEDGMENT OF SUPPORT AND DISCLAIMER (MAY 1995)
252.235-7011  FINAL SCIENTIFIC OR TECHNICAL REPORT (JAN 2015)
252.242-7004  MATERIAL MANAGEMENT AND ACCOUNTING SYSTEM (MAY 2011)
252.242-7005  CONTRACTOR BUSINESS SYSTEMS (FEB 2012)
252.242-7006  ACCOUNTING SYSTEM ADMINISTRATION (FEB 2012)
252.243-7001  PRICING OF CONTRACT MODIFICATIONS (DEC 1991)
252.243-7002  REQUESTS FOR EQUITABLE ADJUSTMENT (DEC 2012)
252.244-7000  SUBCONTRACTS FOR COMMERCIAL ITEMS (JUN 2013)
252.244-7001  CONTRACTOR PURCHASING SYSTEM ADMINISTRATION - BASIC (MAY 2014)
252.245-7001  TAGGING, LABELING, AND MARKING OF GOVERNMENT-FURNISHED PROPERTY (APR 2012)
252.245-7002  REPORTING LOSS OF GOVERNMENT PROPERTY (APR 2012)
252.245-7003  CONTRACTOR PROPERTY MANAGEMENT SYSTEM ADMINISTRATION (APR 2012)
252.245-7004  REPORTING, REUTILIZATION, AND DISPOSAL (SEP 2016)
252.246-7003  NOTIFICATION OF POTENTIAL SAFETY ISSUES (JUN 2013)
252.246-7006  WARRANTY TRACKING OF SERIALIZED ITEMS (MAR 2016)
252.246-7007  CONTRACTOR COUNTERFEIT ELECTRONIC PART DETECTION AND AVOIDANCE SYSTEM (AUG 2016)
252.251-7000  ORDERING FROM GOVERNMENT SUPPLY SOURCES (AUG 2012)

C. AIR FORCE FEDERAL ACQUISITION REGULATION SUPPLEMENT CONTRACT CLAUSES

5352.201-9101  OMBUDSMAN (JUN 2016)
Para (c). Ombudsmen names, addresses, phone numbers, fax, and email addresses.
'Ms. Olalani Kamakau
Phone: (310)653-1185
Address: SMC/PKC
Attn: Ms. Olalani Kamakau
483 N. Aviation Blvd
Los Angeles AFB, CA 90245-2808"

5352.204-9000 NOTIFICATION OF GOVERNMENT SECURITY ACTIVITY AND VISITOR GROUP SECURITY AGREEMENTS (MAR 2012)
5352.223-9000 ELIMINATION OF USE OF CLASS I OZONE DEPLETING SUBSTANCES (ODS) (NOV 2012)
5352.223-9001 HEALTH AND SAFETY ON GOVERNMENT INSTALLATIONS (NOV 2012)
5352.242-9000 CONTRACTOR ACCESS TO AIR FORCE INSTALLATIONS (NOV 2012)

Para (b), Any additional requirements to comply with local security procedures ‘TBD’
Para (d). Additional requirements. ‘TBD’

II. NOTICE: The following contract clauses pertinent to this section are hereby incorporated in full text:

A. FEDERAL ACQUISITION REGULATION CONTRACT CLAUSES IN FULL TEXT

52.211-15 DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS (APR 2008)

This is a rated order certified for national defense, emergency preparedness, and energy program use, and the Contractor shall follow all the requirements of the Defense Priorities and Allocations System regulation (15 CFR 700).

52.217-09 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor within 30; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 30 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 4 years, 7 months..

52.252-02 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): http://farsite.hill.af.mil/
52.252-06 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

B. DEFENSE FAR SUPP CONTRACT CLAUSES IN FULL TEXT

252.204-7008 COMPLIANCE WITH SAFEGUARDING COVERED DEFENSE INFORMATION CONTROLS (DEVIATION 2016-O0001) (OCT 2015)

(a) Definitions. As used in this provision—

“Controlled technical information,” “covered contractor information system,” and “covered defense information” are defined in clause 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (DEVIATION 2016-O0001)(OCT 2015).

(b) The security requirements required by contract clause 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (DEVIATION 2016-O0001)(OCT 2015) shall be implemented for all covered defense information on all covered contractor information systems that support the performance of this contract.

(c) If the Offeror anticipates that additional time will be necessary to implement derived security requirement 3.5.3 “Use of multifactor authentication for local and network access to privileged accounts and for network access to non-privileged accounts” within National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, “Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations (see <http://dx.doi.org/10.6028/NIST.SP.800-171>), the Offeror shall notify the Contracting Officer that they will implement the requirement within 9 months of contract award.

(d) If the Offeror proposes to deviate from any of the security requirements in NIST SP 800-171 that is in effect at the time the solicitation is issued or as authorized by the Contracting Officer, the Offeror shall submit to the Contracting Officer, for consideration by the DoD Chief Information Officer (CIO), a written explanation of—

(1) Why a particular security requirement is not applicable; or

(2) How an alternative, but equally effective, security measure is used to compensate for the inability to satisfy a particular requirement and achieve equivalent protection.

(e) An authorized representative of the DoD CIO will approve or disapprove offeror requests to deviate from NIST SP 800-171 requirements in writing prior to contract award. Any approved deviation from NIST SP 800-171 shall be incorporated into the resulting contract.

252.204-7009 LIMITATIONS ON THE USE OR DISCLOSURE OF THIRD-PARTY CONTRACTOR REPORTED CYBER INCIDENT INFORMATION (DEC 2015)

(a) Definitions. As used in this clause—

“Compromise” means disclosure of information to unauthorized persons, or a violation of the security policy of a system, in which unauthorized intentional or unintentional disclosure, modification, destruction, or loss of an object, or the copying of information to unauthorized media may have occurred.
“Controlled technical information” means technical information with military or space application that is subject to controls on the access, use, reproduction, modification, performance, display, release, disclosure, or dissemination. Controlled technical information would meet the criteria, if disseminated, for distribution statements B through F using the criteria set forth in DoD Instruction 5230.24, Distribution Statements on Technical Documents. The term does not include information that is lawfully publicly available without restrictions.

“Covered defense information” means unclassified information that—

(1) Is—

(i) Provided to the contractor by or on behalf of DoD in connection with the performance of the contract; or

(ii) Collected, developed, received, transmitted, used, or stored by or on behalf of the contractor in support of the performance of the contract; and

(2) Falls in any of the following categories:

(i) Controlled technical information.

(ii) Critical information (operations security). Specific facts identified through the Operations Security process about friendly intentions, capabilities, and activities vitally needed by adversaries for them to plan and act effectively so as to guarantee failure or unacceptable consequences for friendly mission accomplishment (part of Operations Security process).

(iii) Export control. Unclassified information concerning certain items, commodities, technology, software, or other information whose export could reasonably be expected to adversely affect the United States national security and nonproliferation objectives. To include dual use items; items identified in export administration regulations, international traffic in arms regulations and munitions list; license applications; and sensitive nuclear technology information.

(iv) Any other information, marked or otherwise identified in the contract, that requires safeguarding or dissemination controls pursuant to and consistent with law, regulations, and Governmentwide policies (e.g., privacy, proprietary business information).

“Cyber incident” means actions taken through the use of computer networks that result in a compromise or an actual or potentially adverse effect on an information system and/or the information residing therein.

(b) Restrictions. The Contractor agrees that the following conditions apply to any information it receives or creates in the performance of this contract that is information obtained from a third-party’s reporting of a cyber incident pursuant to DFARS clause 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (or derived from such information obtained under that clause):

(1) The Contractor shall access and use the information only for the purpose of furnishing advice or technical assistance directly to the Government in support of the Government's activities related to clause 252.204-7012, and shall not be used for any other purpose.

(2) The Contractor shall protect the information against unauthorized release or disclosure.

(3) The Contractor shall ensure that its employees are subject to use and non-disclosure obligations consistent with this clause prior to the employees being provided access to or use of the information.
(4) The third-party contractor that reported the cyber incident is a third-party beneficiary of the non-disclosure agreement between the Government and Contractor, as required by paragraph (b)(3) of this clause.

(5) A breach of these obligations or restrictions may subject the Contractor to—

   (i) Criminal, civil, administrative, and contractual actions in law and equity for penalties, damages, and other appropriate remedies by the United States; and

   (ii) Civil actions for damages and other appropriate remedies by the third party that reported the cyber incident, as a third party beneficiary of this clause.

(c) Subcontracts. The Contractor shall include this clause, including this paragraph (c), in subcontracts, or similar contractual instruments, for services that include support for the Government’s activities related to safeguarding covered defense information and cyber incident reporting, including subcontracts for commercial items, without alteration, except to identify the parties.

252.204-7012 SAFEGUARDING COVERED DEFENSE INFORMATION AND CYBER INCIDENT REPORTING (DEC 2015)

(a) Definitions. As used in this clause—

“Adequate security” means protective measures that are commensurate with the consequences and probability of loss, misuse, or unauthorized access to, or modification of information.

“Compromise” means disclosure of information to unauthorized persons, or a violation of the security policy of a system, in which unauthorized intentional or unintentional disclosure, modification, destruction, or loss of an object, or the copying of information to unauthorized media may have occurred.

“Contractor attributional/proprietary information” means information that identifies the contractor(s), whether directly or indirectly, by the grouping of information that can be traced back to the contractor(s) (e.g., program description, facility locations), personally identifiable information, as well as trade secrets, commercial or financial information, or other commercially sensitive information that is not customarily shared outside of the company.

“Contractor information system” means an information system belonging to, or operated by or for, the Contractor.

“Controlled technical information” means technical information with military or space application that is subject to controls on the access, use, reproduction, modification, performance, display, release, disclosure, or dissemination. Controlled technical information would meet the criteria, if disseminated, for distribution statements B through F using the criteria set forth in DoD Instruction 5230.24, Distribution Statements on Technical Documents. The term does not include information that is lawfully publicly available without restrictions.

“Covered contractor information system” means an information system that is owned, or operated by or for, a contractor and that processes, stores, or transmits covered defense information.

“Covered defense information” means unclassified information that—

   (i) Is—

      (A) Provided to the contractor by or on behalf of DoD in connection with the performance of the contract; or
(B) Collected, developed, received, transmitted, used, or stored by or on behalf of the contractor in support of the performance of the contract; and

(ii) Falls in any of the following categories:

(A) Controlled technical information.

(B) Critical information (operations security). Specific facts identified through the Operations Security process about friendly intentions, capabilities, and activities vitally needed by adversaries for them to plan and act effectively so as to guarantee failure or unacceptable consequences for friendly mission accomplishment (part of Operations Security process).

(C) Export control. Unclassified information concerning certain items, commodities, technology, software, or other information whose export could reasonably be expected to adversely affect the United States national security and nonproliferation objectives. To include dual use items; items identified in export administration regulations, international traffic in arms regulations and munitions list; license applications; and sensitive nuclear technology information.

(D) Any other information, marked or otherwise identified in the contract, that requires safeguarding or dissemination controls pursuant to and consistent with law, regulations, and Governmentwide policies (e.g., privacy, proprietary business information).

“Cyber incident” means actions taken through the use of computer networks that result in a compromise or an actual or potentially adverse effect on an information system and/or the information residing therein.

“Forensic analysis” means the practice of gathering, retaining, and analyzing computer-related data for investigative purposes in a manner that maintains the integrity of the data.

“Malicious software” means computer software or firmware intended to perform an unauthorized process that will have adverse impact on the confidentiality, integrity, or availability of an information system. This definition includes a virus, worm, Trojan horse, or other code-based entity that infects a host, as well as spyware and some forms of adware.

“Media” means physical devices or writing surfaces including, but is not limited to, magnetic tapes, optical disks, magnetic disks, large-scale integration memory chips, and printouts onto which information is recorded, stored, or printed within an information system.

“Operationally critical support” means supplies or services designated by the Government as critical for airlift, sealift, intermodal transportation services, or logistical support that is essential to the mobilization, deployment, or sustainment of the Armed Forces in a contingency operation.

“Rapid(ly) report(ing)” means within 72 hours of discovery of any cyber incident.

“Technical information” means technical data or computer software, as those terms are defined in the clause at DFARS 252.227-7013, Rights in Technical Data-Non Commercial Items, regardless of whether or not the clause is incorporated in this solicitation or contract. Examples of technical information include research and engineering data, engineering drawings, and associated lists, specifications, standards, process sheets, manuals, technical reports, technical orders, catalog-item identifications, data sets, studies and analyses and related information, and computer software executable code and source code.

(b) Adequate security. The Contractor shall provide adequate security for all covered defense information on all covered contractor information systems that support the performance of work under this contract. To provide adequate security, the Contractor shall—

(1) Implement information systems security protections on all covered contractor information systems including, at a minimum—
(i) For covered contractor information systems that are part of an Information Technology (IT) service or system operated on behalf of the Government—

(A) Cloud computing services shall be subject to the security requirements specified in the clause 252.239-7010, Cloud Computing Services, of this contract; and

(B) Any other such IT service or system (i.e., other than cloud computing) shall be subject to the security requirements specified elsewhere in this contract; or

(ii) For covered contractor information systems that are not part of an IT service of system operated on behalf of the Government and therefore are not subject to the security requirement specified at paragraph (b)(1)(i) of this clause—

(A) The security requirements in National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, “Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations,” http://dx.doi.org/10.6028/NIST.SP.800-171 that is in effect at the time the solicitation is issued or as authorized by the Contracting Officer, as soon as practical, but not later than December 31, 2017. The Contractor shall notify the DoD CIO, via email at osd.dibcsia@mail.mil, within 30 days of contract award, of any security requirements specified by NIST SP 800-171 not implemented at the time of contract award; or

(B) Alternative but equally effective security measures used to compensate for the inability to satisfy a particular requirement and achieve equivalent protection accepted in writing by an authorized representative of the DoD CIO; and

(2) Apply other information systems security measures when the Contractor reasonably determines that information systems security measures, in addition to those identified in paragraph (b)(1) of this clause, may be required to provide adequate security in a dynamic environment based on an assessed risk or vulnerability.

(c) Cyber incident reporting requirement.

(1) When the Contractor discovers a cyber incident that affects a covered contractor information system or the covered defense information residing therein, or that affects the contractor’s ability to perform the requirements of the contract that are designated as operationally critical support, the Contractor shall—

(i) Conduct a review for evidence of compromise of covered defense information, including, but not limited to, identifying compromised computers, servers, specific data, and user accounts. This review shall also include analyzing covered contractor information system(s) that were part of the cyber incident, as well as other information systems on the Contractor’s network(s), that may have been accessed as a result of the incident in order to identify compromised covered defense information, or that affect the Contractor’s ability to provide operationally critical support; and

(ii) Rapidly report cyber incidents to DoD at <http://dibnet.dod.mil>.

(2) Cyber incident report. The cyber incident report shall be treated as information created by or for DoD and shall include, at a minimum, the required elements at <http://dibnet.dod.mil>.

(3) Medium assurance certificate requirement. In order to report cyber incidents in accordance with this clause, the Contractor or subcontractor shall have or acquire a DoD-approved medium assurance certificate to report cyber incidents. For information on obtaining a DoD-approved medium assurance certificate, see <http://iase.disa.mil/pki/eca/Pages/index.aspx>.
(d) Malicious software. The Contractor or subcontractors that discover and isolate malicious software in connection with a reported cyber incident shall submit the malicious software in accordance with instructions provided by the Contracting Officer.

(e) Media preservation and protection. When a Contractor discovers a cyber incident has occurred, the Contractor shall preserve and protect images of all known affected information systems identified in paragraph (c)(1)(i) of this clause and all relevant monitoring/packet capture data for at least 90 days from the submission of the cyber incident report to allow DoD to request the media or decline interest.

(f) Access to additional information or equipment necessary for forensic analysis. Upon request by DoD, the Contractor shall provide DoD with access to additional information or equipment that is necessary to conduct a forensic analysis.

(g) Cyber incident damage assessment activities. If DoD elects to conduct a damage assessment, the Contracting Officer will request that the Contractor provide all of the damage assessment information gathered in accordance with paragraph (e) of this clause.

(h) DoD safeguarding and use of contractor attributional/proprietary information. The Government shall protect against the unauthorized use or release of information obtained from the contractor (or derived from information obtained from the contractor) under this clause that includes contractor attributional/proprietary information, including such information submitted in accordance with paragraph (c). To the maximum extent practicable, the Contractor shall identify and mark attributional/proprietary information. In making an authorized release of such information, the Government will implement appropriate procedures to minimize the contractor attributional/proprietary information that is included in such authorized release, seeking to include only that information that is necessary for the authorized purpose(s) for which the information is being released.

(i) Use and release of contractor attributional/proprietary information not created by or for DoD. Information that is obtained from the contractor (or derived from information obtained from the contractor) under this clause that is not created by or for DoD is authorized to be released outside of DoD—

(1) To entities with missions that may be affected by such information;

(2) To entities that may be called upon to assist in the diagnosis, detection, or mitigation of cyber incidents;

(3) To Government entities that conduct counterintelligence or law enforcement investigations;

(4) For national security purposes, including cyber situational awareness and defense purposes (including with Defense Industrial Base (DIB) participants in the program at 32 CFR part 236); or

(5) To a support services contractor ("recipient") that is directly supporting Government activities under a contract that includes the clause at 252.204-7009, Limitations on the Use or Disclosure of Third-Party Contractor Reported Cyber Incident Information.

(j) Use and release of contractor attributional/proprietary information created by or for DoD. Information that is obtained from the contractor (or derived from information obtained from the contractor) under this clause that is created by or for DoD (including the information submitted pursuant to paragraph (c) of this clause) is authorized to be used and released outside of DoD for purposes and activities authorized by paragraph (i) of this clause, and for any other lawful Government purpose or activity, subject to all applicable statutory, regulatory, and policy based restrictions on the Government's use and release of such information.
(k) The Contractor shall conduct activities under this clause in accordance with applicable laws and regulations on the interception, monitoring, access, use, and disclosure of electronic communications and data.

(l) Other safeguarding or reporting requirements. The safeguarding and cyber incident reporting required by this clause in no way abrogates the Contractor’s responsibility for other safeguarding or cyber incident reporting pertaining to its unclassified information systems as required by other applicable clauses of this contract, or as a result of other applicable U.S. Government statutory or regulatory requirements.

(m) Subcontracts. The Contractor shall—

(1) Include this clause, including this paragraph (m), in subcontracts, or similar contractual instruments, for operationally critical support, or for which subcontract performance will involve a covered contractor information system, including subcontracts for commercial items, without alteration, except to identify the parties; and

(2) When this clause is included in a subcontract, require subcontractors to rapidly report cyber incidents directly to DoD at <http://dibnet.dod.mil> and the prime Contractor. This includes providing the incident report number, automatically assigned by DoD, to the prime Contractor (or next higher-tier subcontractor) as soon as practicable.

252.219-7003 SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS) (DEVIATION) (AUG 2016)

This clause supplements the Federal Acquisition Regulation 52.219-9, Small Business Subcontracting Plan, clause of this contract.

(a) Definitions. “Summary Subcontract Report (SSR) Coordinator,” as used in this clause, means the individual who is registered in the Electronic Subcontracting Reporting System (eSRS) at the Department of Defense (9700) and is responsible for acknowledging receipt or rejecting SSRs in eSRS for the Department of Defense.

(b) Subcontracts awarded to workshops approved by the Committee for Purchase from People Who are Blind or Severely Disabled (41 U.S.C. 8502-8504), may be counted toward the Contractor’s small business subcontracting goal.

(c) A mentor firm, under the Pilot Mentor-Protege Program established under section 831 of Public Law 101-510, as amended, may count toward its small disadvantaged business goal, subcontracts awarded to-

(1) Protege firms which are qualified organizations employing the severely disabled; and

(2) Former protege firms that meet the criteria in section 831(g)(4) of Public Law 101-510.

(d) The master plan is approved by the Contractor’s cognizant contract administration activity.

(e) In those subcontracting plans which specifically identify small businesses, the Contractor shall notify the Administrative Contracting Officer of any substitutions of firms that are not small business firms, for the small business firms specifically identified in the subcontracting plan. Notifications shall be in writing and shall occur within a reasonable period of time after award of the subcontract. Contractor-specified formats shall be acceptable.

(f)(1) For DoD, the Contractor shall submit reports in eSRS as follows:
(i) The Individual Subcontract Report (ISR) shall be submitted to the contracting officer at the procuring contracting office, even when contract administration has been delegated to the Defense Contract Management Agency.

(ii) To submit the consolidated SSR for an individual subcontracting plan in eSRS, the contractor shall identify the Government agency in Block 7 (“Agency to which the report is being submitted”) by selecting “Department of Defense (DoD) (9700)” from the top of the second dropdown menu. The contractor shall not select anything lower.

(2) For DoD, the authority to acknowledge receipt or reject reports in eSRS is as follows:

(i) The authority to acknowledge receipt or reject the ISR resides with the contracting officer who receives it, as described in paragraph (f)(1)(i) of this clause.

(ii) The authority to acknowledge receipt or reject SSRs resides with the SSR Coordinator.

(End of clause)

Alternate I. In orders against basic ordering agreements and blanket purchase agreements, and as prescribed in 219.708(b)(1)(A) and (b)(1)(A)(2), use the following clause, which uses a different paragraph (f) than the basic clause.

SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS) - ALTERNATE I (DEVIATION 2016-O0009) (AUG 2016)

This clause supplements the Federal Acquisition Regulation 52.219-9, Small Business Subcontracting Plan, clause of this contract.

(a) Definitions. “Summary Subcontract Report (SSR) Coordinator,” as used in this clause, means the individual who is registered in the Electronic Subcontracting Reporting System (eSRS) at the Department of Defense (9700) and is responsible for acknowledging receipt or rejecting SSRs in eSRS for the Department of Defense.

(b) Subcontracts awarded to workshops approved by the Committee for Purchase from People Who are Blind or Severely Disabled (41 U.S.C. 8502-8504), may be counted toward the Contractor’s small business subcontracting goal.

(c) A mentor firm, under the Pilot Mentor-Protege Program established under section 831 of Public Law 101-510, as amended, may count toward its small disadvantaged business goal, subcontracts awarded to-

(1) Protege firms which are qualified organizations employing the severely disabled; and

(2) Former protege firms that meet the criteria in section 831(g)(4) of Public Law 101-510.

(d) The master plan is approved by the Contractor’s cognizant contract administration activity.

(e) In those subcontracting plans which specifically identify small businesses, the Contractor shall notify the Administrative Contracting Officer of any substitutions of firms that are not small business firms, for the small business firms specifically identified in the subcontracting plan. Notifications shall be in writing and shall occur within a reasonable period of time after award of the subcontract. Contractor-specified formats shall be acceptable.
(f)(1) For DoD, the Contractor shall submit reports in eSRS as follows:

   (i) The Standard Form 294, Subcontracting Report for Individual Contracts, shall be submitted in accordance with the instructions on that form.

   (ii) To submit the consolidated SSR for an individual subcontracting plan in eSRS, the Contractor shall identify the Government agency in Block 7 ("Agency to which the report is being submitted") by selecting "Department of Defense (DoD) (9700)" from the top of the second dropdown menu. The Contractor shall not select anything lower.

   (2) For DoD, the authority to acknowledge receipt or reject SSRs in eSRS resides with the SSR Coordinator.

(End of clause)

252.232-7007 LIMITATION OF GOVERNMENT’S OBLIGATION (APR 2014)

   (a) Contract line item(s) TBD is/are incrementally funded. For this/these item (s), the sum of ______ (Contracting officer insert after negotiation) of the total price is presently available for payment and allotted to this contract. An allotment schedule is set forth in paragraph (j) of this clause.

   (b) For item(s) identified in paragraph (a) of this clause, the Contractor agrees to perform up to the point at which the total amount payable by the Government, including reimbursement in the event of termination of those item(s) for the Government's convenience, approximates the total amount currently allotted to the contract. The Contractor is not authorized to continue work on those item(s) beyond that point. The Government will not be obligated in any event to reimburse the Contractor in excess of the amount allotted to the contract for those item(s) regardless of anything to the contrary in the clause entitled "Termination for Convenience of the Government." As used in this clause, the total amount payable by the Government in the event of termination of applicable contract line item(s) for convenience includes costs, profit, and estimated termination settlement costs for those item(s).

   (c) Notwithstanding the dates specified in the allotment schedule in paragraph (j) of this clause, the Contractor will notify the Contracting Officer in writing at least ninety days prior to the date when, in the Contractor's best judgment, the work will reach the point at which the total amount payable by the Government, including any cost for termination for convenience, will approximate 85 percent of the total amount then allotted to the contract for performance of the applicable item(s). The notification will state (1) the estimated date when that point will be reached and (2) an estimate of additional funding, if any, needed to continue performance of applicable line items up to the next scheduled date for allotment of funds identified in paragraph (j) of this clause, or to a mutually agreed upon substitute date. The notification will also advise the Contracting Officer of the estimated amount of additional funds that will be required for the timely performance of the item(s) funded pursuant to this clause, for a subsequent period as may be specified in the allotment schedule in paragraph (j) of this clause or otherwise agreed to by the parties. If after such notification additional funds are not allotted by the date identified in the Contractor's notification, or by an agreed substitute date, the Contracting Officer will terminate any item(s) for which additional funds have not been allotted, pursuant to the clause of this contract entitled "Termination for Convenience of the Government."

   (d) When additional funds are allotted for continued performance of the contract line item(s) identified in paragraph (a) of this clause, the parties will agree as to the period of contract performance which will be covered by the funds. The provisions of paragraphs (b) through (d) of this clause will apply in like manner to the additional allotted funds and agreed substitute date, and the contract will be modified accordingly.

   (e) If, solely by reason of failure of the Government to allot additional funds, by the dates indicated below, in amounts sufficient for timely performance of the contract line item(s) identified in
paragraph (a) of this clause, the Contractor incurs additional costs or is delayed in the performance of the work under this contract and if additional funds are allotted, an equitable adjustment will be made in the price or prices (including appropriate target, billing, and ceiling prices where applicable) of the item(s), or in the time of delivery, or both. Failure to agree to any such equitable adjustment hereunder will be a dispute concerning a question of fact within the meaning of the clause entitled "Disputes."

(f) The Government may at any time prior to termination allot additional funds for the performance of the contract line item(s) identified in paragraph (a) of this clause.

(g) The termination provisions of this clause do not limit the rights of the Government under the clause entitled "Default." The provisions of this clause are limited to the work and allotment of funds for the contract line item(s) set forth in paragraph (a) of this clause. This clause no longer applies once the contract is fully funded except with regard to the rights or obligations of the parties concerning equitable adjustments negotiated under paragraphs (d) or (e) of this clause.

(h) Nothing in this clause affects the rights of the Government to terminate this contract pursuant to the clause of this contract entitled "Termination for Convenience of the Government."

(i) Nothing in this clause shall be construed as authorization of voluntary services whose acceptance is otherwise prohibited under 31 U.S.C. 1342.

(j) The parties contemplate that the Government will allot funds to this contract in accordance with the following schedule:

On execution of contract: (Insert funds allotted on execution of the contract)

_____ (Insert funds allotted for first date)

_____ (Insert funds allotted for second date)

_____ (Insert funds allotted for third date)

_____ (Insert first date that more funds will be allotted)

_____ (Insert second date that more funds will be allotted)

_____ (Insert third date that more funds will be allotted)
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<th>TITLE</th>
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<td>SOW</td>
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<td>ATTACHMENT 2</td>
<td>33</td>
<td>08 DEC 2016</td>
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<td>ATTACHMENT 3</td>
<td>13</td>
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<td>SECTION M</td>
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Statement of Work (SOW) For
Long Duration Propulsive
Evolved Expendable Launch
Vehicle (EELV) Secondary
Payload Adapter (ESPA)

(LDPE)
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1. Scope

This Statement of Work (SOW) defines the effort required by the Contractor for the Long Duration Propulsive ESPA (LDPE) Program. Unless otherwise specified, the Contractor shall provide all personnel, facilities, materials, and services necessary to meet the requirements of this SOW. The work described in this SOW will apply to the option for Vehicle #2, if exercised, and the option for Vehicle #3, if exercised.

LDPE extends Air Force Space Command’s (AFSPC) standard service policy for rideshare, leveraging previous propulsive ESPA development. LDPE will be controlled using Enterprise Ground Services as the baseline for command and control. The effort will include spacecraft payload integration services, and one year of early orbit checkout and operations. The nominal profile for LDPE missions is illustrated in Figures 1.1 and 1.2.

![Diagram of LDPE Launch to Orbit]

* Exact distance above GTO may change slightly

Figure 1.1 -- LDPE Launch to Orbit
Figure 1.2-- LDPE On-Orbit Operations

1.1. Phases
There are three major phases of effort defined for the LDPE: **Phase-1**, Space Vehicle Assembly and Integration, and Test; **Phase-2**, Payload Integration & Test (I&T), and Launch Vehicle Integration Support & Launch Support; and **Phase-3**, Early Orbit Checkout and On-Orbit Support. The work in each of the three activities is not wholly serial, information or effort may be required from later phases for satisfactory completion of work in earlier phases. The complete effort also involves system-level management, engineering, and other associated support activities across all phases.

Table 1.1. Contract Structure

<table>
<thead>
<tr>
<th>Vehicle</th>
<th>Phase</th>
<th>Activities</th>
<th>Activities</th>
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<tbody>
<tr>
<td>LDPE Vehicle #1</td>
<td>Phase-1</td>
<td>Assemble, Integrate, Test and Deliver</td>
<td>Basic</td>
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<tr>
<td></td>
<td>Phase-2</td>
<td>Payload I&amp;T, Launch I&amp;T Support and Launch Support for LDPE #1</td>
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<tr>
<td></td>
<td>Phase-3</td>
<td>Early Orbit Checkout Support and On-Orbit Support</td>
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<td>LDPE Vehicle #2</td>
<td>Phase-1</td>
<td>Assemble, Integrate, Test and Deliver</td>
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<tr>
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<td>Phase-2</td>
<td>Payload I&amp;T, Launch I&amp;T Support and Launch Support for LDPE #2</td>
<td>Option</td>
</tr>
<tr>
<td></td>
<td>Phase-3</td>
<td>Early Orbit Checkout Support and On-Orbit Support</td>
<td>Option</td>
</tr>
</tbody>
</table>
1.2. Phase-1 Description

Space Vehicle Assembly, Integration & Test (Phase-1) includes any design and development required for satisfaction of SOW requirements, followed by assembly, integration and test of the LDPE article, and culminates in a space vehicle ready for payload/s integration at the system level. Successful completion of a **Bus Level-Baseline Function Test (BL-BFT)** demonstrates that the space vehicle is fully functional and is ready for environmental testing and/or the integration of payload/s. Details of work to be accomplished in Phase-1 are detailed in Section 3. Major milestones in this phase are:

- Kickoff
- Preliminary Design Review (PDR) -- contractor led; govt observers
- Critical Design Review (CDR) -- contractor led; govt observers
- Ground System Development for Mission Operations (MMSOC 2.1 compliant)
- Bus-Level Test Readiness Review (BL-TRR) -- govt acceptance of test procedures & levels consistent with SOWa003
- Bus Level-Baseline Functional Test (BL-BFT) complete -- govt observation of article test performance to SOW
- Bus I&T complete -- govt acceptance & readiness for auxiliary payload integration

1.3. Phase-2 Description

Payload Integration & Test and Launch Vehicle Integration & Test Support (Phase-2) includes the payload/s I&T phases for both separable and non-separable auxiliary payloads; successful full system level testing (system functional test, environmental test, compatibility testing, ground control function testing, etc.); launch vehicle interface development; and launch vehicle integration and launch support for the LDPE mission. Successful completion results in a fully operational space vehicle, in its target orbit, that meets all requirements. Details of work to be accomplished in Phase-2 are described in Section 4. Major milestones in this phase are:

- Payload ICDs delivered
- Payloads delivered
- Payload I&T complete
- System Level-Baseline Functional Test (SL-BFT)
- System Level-Test Readiness Review (SL-TRR)
- System Level Test complete
- Pre-Ship Review (PSR)
- Launch Integration support
- Launch support (pre-launch)
1.4. Phase-3 Description

Early Orbit Checkout and On-Orbit Support includes mission planning development, ground system development, exercise support, rehearsal support, Launch & Early Orbit (LEO) support and on-orbit operations support. Work to be accomplished in Phase-3 are detailed in Section 5. Major milestones in this phase are:

- Mission Planning Tool
- Ground System Refinement for Mission Operations (MMSOC 2.1 compliant)
- On-Orbit Handbook Complete
- Development of contingency procedures
- S/C Launch and Early Orbit (LEO) Checkout Complete
- Transition to Government Operators: Launch + 120 days
- Final Report - End Item Data Package (EIDP) Submittal: End Technical PoP + 74 days

1.5. Compliance Documents

These documents shall be considered included in the SOW, by reference; compliance to full or tailored levels, as specified in Table 1.5, is required for acceptance.

<table>
<thead>
<tr>
<th>Document Number</th>
<th>Title</th>
<th>Date</th>
<th>Comments/Tailoring</th>
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<td>TBD</td>
<td>Evolved Ground Services (EGS) ICD / MMSOC 2.1</td>
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<td>EELV RUG</td>
<td>Evolved Expendable Launch Vehicle Rideshare User’s Guide</td>
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<td>Full Compliance</td>
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<td>AFPAM 63-113</td>
<td>Program Protection Planning for Life Cycle Management</td>
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<td>Tailoring Authorized - Submit tailored approach for Government approval</td>
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<td>ANSI/EIA 748-C</td>
<td>Earned Value Management Systems</td>
<td>2013</td>
<td>Tailoring Authorized - Submit tailored approach for Government approval</td>
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<td>Risk Management Framework (RMF) for DoD Information Technology (IT)</td>
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<td>NAS 411</td>
<td>Hazardous Materials Management Program</td>
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<td>SAE AS9100</td>
<td>Quality Systems - Aerospace - Model for Quality Assurance in Design, Development, Production, Installation and Servicing</td>
<td>2009</td>
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<td>SMC-S-003</td>
<td>Quality Space and Launch Requirements Addendum to AAS9100C</td>
<td>2015</td>
<td>Compliance demonstrated through AS9100C certification; Full Compliance if not AS9100C certified</td>
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<td>SMC-S-015</td>
<td>End-of-Life Disposal of Satellites in Geosynchronous Altitude</td>
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<td>SMC-S-016</td>
<td>Test Requirements for Launch, Upper-Stage and Space Vehicles</td>
<td>2014</td>
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<td>Tailoring Instructions For MIL-STD-882E</td>
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Table 1.6 Government Furnished Equipment, Information and Data

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<td>Flight keys</td>
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<td>Mission Life</td>
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<td>Separation Systems</td>
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</table>

2. PROGRAM MANAGEMENT

The Contractor shall provide the technical and management expertise necessary to plan and direct the development of the LDPE through program completion to include: management and business operations planning, cost and schedule control, administration of travel, property management, contracts and subcontracts management, weekly and monthly project status, and administrative support.

2.1. Program Office:

The Contractor shall manage, control, and approve all work performed under the contract to accomplish the requirements of this SOW in support of the program objectives. This task covers the support required for the Program Manager to monitor program task execution, track program and Government property, track program costs, and monitor the program schedule throughout the period of performance of the contract. In order to convey the management philosophy and codify business rhythms, the Contractor shall prepare and administer a
Program Management Plan (PMP) (CDRL A026) and Project Planning Chart. The Project Planning Chart shall be delivered at Basic ATP + 15 days. An updated Project Planning Chart shall be delivered at major reviews.

2.2. Program Level Cost/Schedule Management
The Contractor shall conduct program finance, scheduling support, and reporting activities to meet all program technical and scope requirements. The Contractor shall manage and control Program finances in accordance with ANSI-748 compliant Contractor policies. Effort in this element shall include support of the following Contractor Data Requirements List (CDRL) items:

- Technical Status Report (Monthly) (CDRL A001)
- Man-Hours Expenditure Chart (Monthly) (CDRL A028, Phase 1)
- Funds and Man-Hours Expenditure Report (Monthly) (CDRL A002, Phases 2 & 3)
- Project Planning Chart (CDRL A005)
- Integrated Master Schedule (IMS) (CDRL A018)
- Contract Invoicing and Payment Report (CDRL A029, Phases 2 & 3)

2.3. Contracts and Subcontracts Management
The Contractor shall conduct contract administration, subcontracts administration, and export control activities in accordance with internal company procedures and contractually required FAR clauses throughout the contract to include the following activities:

- Contract and subcontract management and administration activities to support the execution of the contract.
- Interaction with the Government Contracting Officer (CO), subcontractors (executive management, program management, and technical support personnel).
- Flow down of direction and communication with subcontractors.
- Tracking of subcontractor performance against contract requirements, continuing contract administration, management, and direction throughout the program.
- Patent Reports.

2.4. Property Management
The Contractor shall manage property associated with the program in accordance with Contractor policy for the storage and identification of Government property. The Property Manager shall be the primary point of contact with the Government Property Manager. In addition, the Contractor shall provide a Unique Identification Designator (UID) for all deliverable Government property.

2.5. Program Security
The Contractor shall develop a Program Protection Implementation Plan (CDRL A008) and implement and manage the security processes necessary to protect LDPE Program material per the SCG. If required by the classification of the program, or secondary payloads, hardware, or software, the contractor shall provide any required facilities and procedures for protecting, processing and handling Unclassified (including ITAR) up to TS/SCI items or data.
3. TASK/TECHNICAL REQUIREMENTS FOR THE LDPE SPACE VEHICLE

3.1. Program Technical Reviews

The Contractor shall conduct the reviews identified in Section 3.7. The Contractor shall provide meeting venues and presentation material per CDRL A003. Draft presentation data for all major milestone reviews shall be submitted no later than 10 business days before each review.

3.2. Configuration and Data Management

The Contractor shall conduct all activities required to control, maintain and audit the system and component design. This effort includes application of Contractor Configuration Management Standards for the generation and control of all contractor generated program documentation to ensure all internal and external program participants are working with the proper data. The Contractor shall provide Data Management to facilitate coordination and submission of all Contract Data Requirements List (CDRL) items as detailed in the RFP.

3.3. Systems Engineering

The Contractor shall perform the necessary systems engineering required to ensure a successful program execution from program ATP through Phase-1, Phase-2 (if option is exercised), and Phase-3 (if option is exercised).

3.3.1. Systems Engineering Technical Management

The Contractor shall provide systems engineering management across all work for this contract from ATP through Phase-1, Phase-2 (if option is exercised), and Phase-3 (if option is exercised).

Activities shall include:

- Manage system-level design and analysis.
- Manage and support the technical budget tracking and allocation process.
- Manage requirements development and verification.
- Manage ICD development.
- Identify risks, perform risk analysis, and provide risk mitigation plans.
- Manage development of platform's fault protection system.
- Provide support for monthly status and performance reports.
- Provide cost and schedule tracking for systems engineering activities.
- Support design reviews, to include action item resolution.
- Perform cost and schedule management for systems engineering efforts.

3.3.2. System Design and Analysis
The Contractor shall deliver the detailed design of the Long Duration Propulsive ESPA (LDPE) article that meets all requirements in the LDPE SOW. System-level Activities shall include the development of a space vehicle functional block diagram and of a space vehicle interface specification for separating and non-separating auxiliary payloads, and for the launch vehicle and primary payload (to include accommodations). The Contractor shall support the government's mission planning activities leading up to selection of auxiliary payloads for the LDPE; e.g. LDPE hosting capabilities and limitations for payloads under consideration, integration issues, and considerations of payload-unique on-orbit checkout & operations.

3.3.3. Technical Budgets

The contractor shall develop technical budgets, tracking them throughout the program and performing allocation to the various subsystems.

Budgets shall include:

- Mass budget
- Power budget
- Thermal budget
- Delta-V budget
- Link budget
- Payload resource budget

3.3.4. Requirements Development and Verification

The Contractor shall perform requirements analysis, definition, and verification. This effort includes the activity of converting the program system objectives into comprehensive system requirements, and then decomposing and allocating these requirements into subsystem level requirements. The Contractor shall document these requirements in a Recurring Hardware Requirements Verification Document (CDRL A010) and conduct a Systems Requirements Review (SRR). The Contractor shall provide an Assembly, Integration and Test Plan that outlines the methodology, approach and verification/validation process to be used to demonstrate all requirements are met (CDRL A006). The Contractor shall provide a Comprehensive Functional and Performance Test Report, to include requirements traceability and verification (CDRL A012). The contractor shall develop and maintain a Requirements Verification Matrix to demonstrate at each major review that the system meets all requirements (CDRL A010).

3.3.5. Interface Control Documents

The Contractor shall develop external Interface Control Documents (ICDs). The draft shall be delivered at CDR + 5 days and a final at hardware delivery (CDRL A013). The Contractor shall perform external and internal interface management throughout Phase-1 and any exercised options.

3.3.6. Risk Management

The Contractor shall perform risk management to include risk identification, risk mitigation plan development, and risk status tracking to burn down all risks prior to hardware delivery. The contractor shall provide read access to the contractor’s risk management environment to the government program management team.
3.3.7. Flight Assurance
The Contractor shall perform the necessary flight assurance activities to ensure successful design, and subsystem manufacture activities.

3.3.8. Flight Assurance Management
The Contractor shall plan, develop, manage, and review the design assurance, quality assurance, and configuration management activities for the LDPE program. The Contractor shall provide cost and schedule tracking for flight assurance activities.

3.3.9. Specialty Engineering

3.3.9.1. The Contractor shall provide reliability and safety engineering activities for the LDPE program in order to meet the RFP requirements and objectives.

3.3.9.2. The Contractor shall perform EMI/EMC analysis

3.3.9.3. The Contractor shall perform contamination control analysis.

3.3.9.4. The Contractor shall provide parts and materials engineering activities for the LDPE Program in order to meet the program objectives. Specific Activities shall include: review lists of materials, parts, and processes

3.3.9.5. The Contractor shall identify parts, materials, or processes that pose a risk to flight assurance.

3.3.9.6. The Contractor shall provide an initial list of expected long lead procurement items at the kickoff meeting and shall update the list at PDR, to include item descriptions, lead times, costs and when item will be needed in LDPE development.

3.3.9.7. The Contractor shall provide quality engineering activities in accordance with internal company policy that shall be limited to quality management/audit of component subcontractors and/or vendors and the monitoring of workmanship within the Contractor facilities.

3.3.10. Spacecraft
The Contractor shall perform design, analysis, build, assembly, and test activities required to deliver a spacecraft and the components and subsystems required to meet LDPE program requirements from ATP through BL-BFT and through Phase-2, if option is exercised.

3.3.11. Structures
The Contractor shall conduct mechanical design and analysis and develop the mechanical systems required for LDPE compliance with SOW requirements, and through Phase-2, if option is exercised.

3.3.12. Spacecraft Design
The Contractor shall perform mechanical design of the LDPE. Activities shall include review support, final design, detail drawing development, installation drawing development, and interface control drawing development. The Contractor shall develop a detailed mechanical layout and packaging to include field of view analysis.

3.3.13. Spacecraft Analysis
The contractor shall perform mechanical analysis of the LDPE.

Activities shall include:

- Completion of detailed structural analysis, which will include the following as required to support verification to SOW, secondary payloads and integration with primary launch vehicle and primary payload (including adapters and separation systems specified):
  - Preliminary Primary Structural Analysis
  - Final Primary Structural Analysis
  - Preliminary Secondary Structural Analysis
  - Final Secondary Structural Analysis
  - FEM Development
  - PCLA Support (Preliminary Coupled Loads Analysis)
  - FCLA Support (Final Coupled Loads Analysis)
  - Component Mounting Analysis
  - Deployed Modal Analysis
  - Stowed Modal Analysis
  - Develop correlated modal model

3.3.14. Subsystem Procurement and Fabrication

The Contractor shall develop detailed component requirements and procure all the subsystem's components in accordance with the Hardware Deliverables List. The Contractor shall fabricate, assemble, and test the spacecraft structure. The Contractor shall develop test plans for deliverable component level tests, conduct and/or verify and validate component level tests, and generate reports.

3.3.15. Thermal

The Contractor shall provide system and subsystem thermal requirements definition, detailed system/subsystem design, and detailed system/subsystem documentation for the LDPE from ATP through BL-BFT and through Phase-2 if option is exercised.

Activities shall include:

- Development of system, subsystem, payload interface, and component thermal requirements.
- Completion of detailed thermal analysis.
- Detail drawing development.
- Installation drawing development.
- Procurement and fabrication of all thermal components.
- Completion of test plans for component level tests.
- Procure the Thermal Subsystem components IAW the Hardware Deliverables List.
- Support of Design and Test Reviews.

3.3.16. Power

The Contractor shall provide Electrical Power Subsystem (EPS) engineering support to, analysis, integration and test planning, and any specialty engineering work relative to the
subsystem for the LDPE from ATP through BL-BFT and through Phase-2 if option is exercised.

Activities shall include:

- Development of component requirements.
- Development of detailed block diagrams and schematics.
- Development of detailed power budget.
- Procure the Electrical Power Subsystem components IAW the Hardware Deliverables List.
- Support of Design and Test Reviews.
- Development of a charge control unit for up to 12 separable payloads 2 per port (not required during launch and ascent).

3.3.17. Avionics

The Contractor shall provide technical and management expertise for the effective planning and coordination of resources necessary for satisfaction of SOW requirements of the delivered LDPE avionics subsystem components and system from ATP through BL-BFT and through Phase-2 if option is exercised.

3.3.18. Avionics Engineering

The Contractor shall provide engineering support to requirements allocation, analysis, integration and test planning, and specialty engineering work relative to the Command and Data Handling (C&DH) Avionics subsystem through BFT and through Phase-2 if option is exercised.

Activities shall include:

- Technical requirements allocation.
- Electrical System Analysis.
- I&T planning.
- Development of avionics and C&DH specifications.
- Preparation of electrical ICDs.
- Support development of EGSE for EDU and FM testing.
- Electrical harness development.
- Procure the Avionics Subsystem components.
- Oversee fabrication, assembly, and testing of the spacecraft avionics unit.
- Providing and managing the required payload I/O resources.
- Support for CDRLS and monthly reports.
- Support of Design Reviews.

3.3.19. Telemetry, Tracking, and Command

The Contractor shall provide the technical and management expertise for the effective planning and coordination of resources necessary for satisfaction of SOW requirements of the LDPE
Telemetry, Tracking, and Command (TT&C) subsystem components and system. The Contractor shall provide engineering support for work related to the TT&C system/subsystem from ATP through BL-BFT and through Phase-2 if option is exercised.

Activities shall include:

- Development of design notes, analyses, and technical support for the following:
  - Initial and final link budgets.
  - Space-to-ground ICD inputs.
  - Frequency management application support.
  - Development of component requirements.
  - Development of detailed design for the TT&C subsystem.
  - Development of detailed block diagrams and schematics.
  - Procure the TT&C Subsystem components IAW the Hardware Deliverables List.
  - Analysis and testing of omni-directional antennas and HGA.
  - Completion of test plans for component level tests.
  - Conduct component level tests and generate reports.
  - Support for CDRLS and monthly reports.
  - Support for design reviews.
  - Draft and support development of all required frequency management documentation.
  - Develop a COMSEC Management Plan (CDRL A020).

3.3.20. Guidance, Navigation, and Control

The Contractor shall provide GN&C system requirements definition, detailed system design, and detailed system documentation for LDPE from ATP through BL-BFT and through Phase-2 if option is exercised.

3.3.21. GN&C Subsystem Engineering

3.3.21.1. The Contractor shall develop the technical design and architecture of the GN&C system, including specification development and requirements verification. Activities shall include development of component requirements, detailed block diagrams and schematics, analysis and simulation of the GN&C algorithms, technical budget generation, and attitude performance analysis.

3.3.21.2. The Contractor shall develop the GN&C FSW architecture to be compliant with the platform's specifications.

3.3.21.3. The Contractor shall generate FSW documentation and test the GN&C FSW at the component level, leveraging existing verified GN&C software and models.

3.3.21.4. The Contractor shall develop mission scenarios and test the integrated system/subsystem software in evaluation environments for functional verification.

3.3.21.5. The Contractor shall integrate the GN&C FSW and perform processor in the loop (PITL) testing against defined verification scenarios.

3.3.21.6. The Contractor shall document the results of the tests.

3.3.22. Propulsion
The Contractor shall provide propulsion system/subsystem requirements definition, detailed system design, and detailed system documentation for LDPE from ATP through BL-BFT and through Phase-2 if option is exercised.

Activities shall include:

- Procure the propulsion system components.
- Completion of test plans for all system, subsystem and component level tests.
- Conduct component level tests and generate reports.
- Conduct system level tests and generate reports.
- Technical interchange with propulsion vendors and adjudication of vendor End Item Data Packages.
- Support for CDRLs and monthly reports.
- Support of Design Reviews.

3.3.23. Propulsion Assembly and Test

The Contractor shall provide Propulsion Assembly and Test activities including the build-up of the propulsion system and all testing to be completed prior to delivery. The activity shall include development of work instructions for the manufacture of the propulsion system.

3.3.24. Harness

The Contractor shall provide Harness Subsystem engineering support to component requirements definition, analysis, and I&T planning, specialty engineering work relative to the component, and detailed component documentation for LDPE from ATP through BL-BFT and through Phase-2 if option is exercised.

Activities shall include:

- Development and fabrication of a payload harness interface.
- Procure the platform harness subsystem materials.
- Fabrication and assembly of the platform harness.
- Completion of test plans for all platform subsystem and component level tests.
- Conduct component level tests and generate reports.
- Support for monthly status and performance reports.
- Support of Design Reviews.
- Development and fabrication of payload harnesses if Phase-2 is exercised

3.4. Flight Software

The Contractor shall provide the technical activities required for developing the flight software in order to meet all LDPE mission objectives and requirements. The Contractor shall perform the flight software development effort, provide configuration and data management of the software deliverables and provide software verification and validation of the integrated software system.

3.4.1. FSW Subsystem Engineering

3.4.1.1. The Contractor shall provide technical management in support of all software development.

3.4.1.2. The Contractor shall support milestone reviews: CDR, TRR and PSR.
3.4.1.3.  The Contractor shall perform software configuration management and software quality assurance.


3.4.1.5.  The Contractor shall design, implement, and test fault detection and correction software and mission sequencing.

3.4.1.6.  The Contractor shall develop software design documentation and a Mission Ground Database.

3.4.1.7.  The Contractor shall develop and maintain a Command and Telemetry List (CDRL-A011).

3.4.1.8.  The Contractor shall develop and maintain a Mission Simulation environment (MSIM) to be used in the development, test, verification and validation of the LDPE flight software.

3.4.2.  Flight Software Updates for the Spacecraft

Activities shall include:

- Develop payload interface software.
- Update and test FSW drivers for star tracker, reaction wheels, inertial measurement unit, and avionics boards.
- Integrate the GN&C software to the simulation environments and the flight software application.
- Update and configure simulation models for use in the spacecraft simulation.
- Update the scripts for FSW full functional verification.
- The Contractor shall perform FSW full functional verification on non-flight hardware.

3.4.3.  Flight Software Deliverables:

Software delivered shall include instructions, or be ready-to-run, on FlatSat. Software deliverables during the design phase shall include (CDRL-A014):

- Command and Telemetry List (CTL)
- Dynamic Satellite Simulator (MSIM and Flatsat)
- Software Build 1
- Software Build 2
- Flight Software

3.5.  Ground Support Equipment

3.5.1.  The Contractor shall provide Ground Support Equipment (GSE) necessary for the build-up of the ESPA structure and propulsion subsystems at the Contractor facilities (shipping containers, fixtures, etc.) as Contractor Capital Equipment.
3.5.2. The Contractor shall provide a hardware based Spacecraft Simulator (FlatSat) modified to meet program's software verification & validation requirements. Upon completion of the integration activities the Contractor shall deliver and support the FlatSat for use in operations rehearsal and on-orbit operations if/when Phase-2 is exercised.

3.5.3. The Contractor shall provide the electronic ground support equipment (EGSE) required to develop and test the integrated avionics unit (IAU). Upon contract completion, the IAU EGSE unit shall be delivered to the government.

3.6. Deliverables

3.6.1. Hardware Deliverables List:
The Contractor shall supply components harness and an integrated propulsion subsystem required to meet the threshold specification as stated in LDPE TRD (Appendix A) and provide the drawings, models and associated list (CDRL A017). This list contains the individual items that will be procured. The final deliverables are dependent on each option and are described in the exit criteria. This list will be updated at each major review. All deliverable hardware must comply with system safety requirements contained in MIL-STD 882E, Section 4 "General Requirements" for deliverable systems or hardware. The Contractor must identify safety-critical components of those systems or hardware, and software interfaces with those components. The Contractor must test and verify the safety critical hardware and software for safety acceptance. The integrated and full functionally tested LDPE shall be delivered (may be delivered in place if Phase-2 option is exercised) at the completion of Phase-1.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>System</td>
<td>Fully Integrated Platform Successful BL-BFT LDPE #1</td>
<td>1</td>
</tr>
<tr>
<td>EGSE</td>
<td>All Electronic Ground Support Equipment</td>
<td>As required</td>
</tr>
<tr>
<td>FlatSat</td>
<td>Spacecraft Simulator and associated test/flight software</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>At time of acceptance, FlatSat shall be identical to flight unit (non-flight HW) including software. Any differences will be documented and accepted by government.</td>
<td></td>
</tr>
<tr>
<td>MSIM</td>
<td>Mission Simulator and software</td>
<td>1</td>
</tr>
<tr>
<td>GSE</td>
<td>Ground Support Equipment (i.e. shipping containers, roll over fixtures, lifting fixtures/slings, …)</td>
<td>As required</td>
</tr>
</tbody>
</table>

3.6.2. Software Deliverables
Software deliverables shall include the most current Flight Software version and Satellite Simulator Software version. The contractor shall develop a Software
3.6.3. The Contractor shall provide the Contract Data Requirements (CDRL) items.
A001 - Technical Status Report
A003 - Presentation Material
A004 - Final Report - End Item Data Package (EIDP) (If Phase-2 not exercised)
A005 - Project Planning Chart
A006 - Test Plan
A007 - Data Accession List (DAL)
A008 - Program Protection Implementation Plan (PPIP)
A009 - Government Property Physical Inventory Count or Custodial Balance Report
A010 - Recurring Hardware Requirements Verification Documentation
A012 - Scientific Report - Comprehensive Functional and Performance Test Report
A014 - Computer Software Product End Items
A015 - Software Requirements Specification
A016 - As-Built Configuration List
A017 - Product Drawings/Models and Associated Lists
A018 - Integrated Master Schedule (IMS)
A019 - Missile System Pre-Launch Safety Package (MSPSP)
A020 - COMSEC Management Plan
A021 - Review Package - Preliminary Design Review
A022 - Review Package - Critical Design Review
A023 - Review Package - Test Readiness Review
A024 - System Safety Program Plan (SSPP)
A025 - Combined Space Debris Assessment Report/End-of-Life Plan (SDAR/EOLP)
A026 - Program Management Plan
A028 – Man-Hours Expenditure Chart

3.7. Reviews

The Contractor shall conduct or support, as appropriate, the reviews identified in this section. The Contractor shall provide presentation material and meeting minutes. Milestone completion tied to reviews will be at conclusion of the specified review with closure of review action items following milestone. Final presentation data for all major milestone reviews shall be submitted no later than 10 working days after the review.

3.7.1. System Requirements Review (SRR) / Preliminary Design Review (PDR)

This review shall present the point design and driving system requirements for the space segment (CDRL A016/A021 integrated). Vehicle #2 and Vehicle #3 (if exercised) SRR/PDR will be a delta-review of Vehicle #1 with focus on any required changes from Vehicle #1 design.

3.7.2. Critical Design Review (CDR)
The Contractor shall conduct a Critical Design Review (CDR) at their facility. The purpose of the CDR is to evaluate the detailed design for producibility and technical adequacy. This review determines the readiness to begin fabrication/coding, manufacturing, assembly, and integration activities (CDRL A022). Vehicle #2 and Vehicle #3 (if exercised) CDR will be a delta CDR of Vehicle #1 with primarily focus on any required changes from Vehicle #1 design.

3.7.3. Test Readiness Review (TRR)
The Contractor shall conduct a Test Readiness Review (TRR) at their facility. The purpose of the TRR is to evaluate the detailed test plans and procedures for technical adequacy. This review determines the readiness to begin formal Bus level integration and test prior to payload I&T (CDRL A023).

3.8. I&T Management
The Contractor shall provide management of Bus I&T.
Activities shall include:

- Provide the sole point of contact for all I&T activities related to the program including intercompany and customer interfaces.
- Provide program office activities.
- Support of program reviews.
- Maintain a comprehensive Test and Integration Master Plan (TIMP) which satisfies the program verification plan.
- Maintain an integration and test schedule.
- Cost and schedule management for all I&T WBS elements.
- Management and oversight of I&T personnel.
- Management and oversight of all work instruction and procedure development needed to support I&T activities.
- Management and oversight of all Ground Support Equipment (GSE) needed to support I&T activities.
- Management and coordination of facilities usage in support of the program.
- Hardware nonconformance and test failure investigation and resolution.

3.9. Engineering Support to I&T
The Contractor shall provide systems engineering and subsystems engineering support during I&T.
Activities shall include:

- Subsystem engineering support to I&T activities.
- Systems engineering support to I&T activities.
- Development of component-level I&T work instructions.
- System Interface Management.
- Flatsat requirements/ICD support.
- ICD management.
- FSW Build 4 to support full system level testing of the space vehicle LDPE bus.
- Software final qualification.
3.10. **I&T Facilities**

The Contractor shall furnish facilities that meet the appropriate physical security standards as detailed in the Program Protection Plan, the program SCG, SOW, and contract, as required. The Contractor shall provide the use of GSE.

3.11. **LDPE Bus Assembly, Integration and Test**

The Contractor shall perform assembly, integration, and test of the LDPE bus. This includes support from the program office, flight assurance, systems engineering, and subsystem engineering. The scope is summarized in the following activities, and includes the requisite planning, design and/or development of plans, procedures, and other related documentation to complete these activities (CDRL A012).

Activities shall include:

- Receipt of all flight hardware to the I&T production floor.
- Installation of the ESPA ring onto any handling fixtures.
- Development of the spacecraft lifting and handling procedure.
- Integration of secondary structure/s onto ESPA ring.
- Integration of the propulsion system into the ESPA ring.
- Leak testing of the propulsion system.
- Installation of the Platform Harnesses to the ESPA ring and all structures.
- Optical Bench assemblies if required prior to integration of the bench with the vehicle.
- Alignments of the platform.
- Safe-to-mate testing for electronic components.
- Mechanical and electrical mating of all bus components or hardware deliverables.
- Component Installation including Thermal Components.
- All structure component Installation including Thermal Components.
- Harness installation.
- Installation of Multi-Layered Insulation (MLI) or Flight Blankets to the Components.
- Platform Internal Closeouts and Inspections.
- Mate of the Decks to the ESPA ring.
- Solar Array receipt, unpacking, and installation to a handling fixtures.
- Solar Array installation and initial deployment.
- SIC level alignment measurements.
- Accelerometer installation.
- Thermocouple installation.
- Bus Safe-to-Mate.
- Generation of all work instructions, procedures, and automated test scripts needed to support Bus I&T activities.
- Development of a Bus Level-Baseline Functional Test (BFT) – the constituent test procedures, or analyses, must verify all SOW requirements.
- Validation of all requirements being met per the Requirements Verification Matrix (RVM)

3.12. **Close-out**
Throughout the program, the Contractor shall ensure that sufficient resource reserves are held for the close-out of the contract activities including disposition of data, computer systems, security closure items, and final contractual disposition.
4. **Payload Integration, Full System-Level Tests, Launch Vehicle Integration Support**

4.1. **Payload Accommodation Design, Development, Integration and Test (I&T)**

The Contractor shall perform payload accommodation, interface design, interface development, assembly & integration of auxiliary payloads to the LDPE, and test of the payloads on the integrated space vehicle at the system level. This includes support to the program office, flight assurance, systems engineering, and subsystem engineering. Payloads may be identified for manifest on the planned launch mission as late as L-12 months.

4.2. **Payload Accommodation Design and Development**

The Contractor shall perform the design, analysis (to include: FEM modifications, coupled loads analysis, thermal analysis, data storage and throughput analysis, power analysis and any other mission analysis) through all phases of the program (Launch, ascent, day-in-the-life and design reference missions).

The Contractor shall conduct a Payload Accommodation Design Review (PADR) (CDRL A027) at their facility. The purpose of the PADR is to evaluate the detailed design for suitability and technical adequacy of LDPE to meet mission requirements. This review determines the readiness and ability of the LDPE to accommodate and support the proposed payload suite.

The Contractor shall incorporate the payload/system analysis results and ICDs into the as built package for the LDPE mission.

4.3. **Payload I&T Engineering Support**

The Contractor shall provide systems engineering and subsystems engineering support during I&T.

Activities shall include:

- Payload engineering support to I&T activities.
- Development of payload I&T work instructions.
- System/payload Interface Management.
- Flatsat requirements/ICD support to develop a System Level-Baseline Functional Test for the integrated system including all payloads.
- Payload ICD management.
- FSW Build 4 to support system level objectives (Space Segment) includes all payloads.
- Software final qualification.
- Flight assurance activities.
4.4. Payload I&T Management

The Contractor shall provide management of payload I&T.

Activities shall include:

- Provide the sole point of contact for all I&T activities related to the program including intercompany and customer interfaces.
- Provide program office activities.
- Support of program reviews.
- Maintain a comprehensive Integration and Test Master Plan which satisfies the program Requirements Verification Matrix (RVM).
- Maintain the payload integration and test schedule at the system level.
- Cost and schedule management for all I&T WBS elements to include payloads as added.
- Management and oversight of all I&T personnel.
- Management and oversight of all work instruction and procedure development needed to support payload I&T activities.
- Management and oversight of all Ground Support Equipment (GSE) needed to support payload I&T activities.
- Management and coordination of facilities usage in support of the integrated program.
- Hardware nonconformance and test failure investigation and resolution.

4.5. Payload Harness

The Contractor shall provide Payload Harness Subsystem engineering support to payload harness requirements definition, analysis, I&T planning, specialty engineering work relative to the payload harness, and detailed payload harness documentation for LDPE from SRR through Phase-2 completion.

Activities shall include:

- Support of Design Reviews.
- Development of payload harness requirements.
- Development of detailed design for the required payload harnesses.
- Integration of design and harness drawings into system level controlled documentation.
- Development of detailed block diagrams and schematics.
- Develop and Implement a payload harness approach.
- Procure the payload harness materials where required.
- Fabrication and assembly of the payload harnesses.
- Conduct payload level tests through the flight harnesses and generate reports.

4.6. Integrated Payload/System-Level Tests

The Contractor shall integrate the GFE payloads onto the spacecraft and perform functional and environmental testing of the Integrated System to include payloads. Refer to Figure 4.6 for a graphic representation, and baseline nomenclature, of the major elements of the integration effort.
Figure 4.62-- Major Elements of LDPE Launch Stack

Activities shall include:

- Installation of payload harness.
- Installation of all payloads including mechanical and electrical connections.
- Re-installation of payloads at the launch site if removed for shipping or launch vehicle integration
- System level electrical functional test for all payloads.
- Flight connector mate/de-mate log.
- Flight plugs installation.
- Propulsion System Post-Environmental ATP and Leak Test.
- Spacecraft Alignments.
- Spacecraft to Payload Alignments.
- Spacecraft Closeouts and Inspections (prior to all major tests).
- Initial Integrated System Test.
- Final Integrated System Test.
- LDPE to Ground Station Compatibility Test.
- EMI/EMC Emissions and Self-Compatibility Testing.
- System Acoustic Test.
- System Sine Vibration Test (if required).
- System Separation Shock Test.
- System Thermal Vacuum Test.
- Solar Array deployment post-environmental test, illumination test and then final stow for flight.
- System Mass Properties.
4.7. Launch Vehicle Integration Support

4.7.1. The Contractor shall plan and manage travel costs associated with the launch, to include travel to the launch vehicle provider and to the launch site.

4.7.2. The Contractor shall conduct and/or support the launch vehicle integration effort. Activities shall include:

- Provide management and sole focal point for all spacecraft related launch site operations.
- Provide program office and flight assurance activities.
- Provide cost and schedule management for all launch-related activities.
- Support from systems engineering to include the development of LV and ground ICDs.
- Support from subsystems engineering.
- Generate a comprehensive launch site integration and test master plan and schedule.
- Management and oversight of all contractor personnel.
- Management and oversight of all work instruction and procedure needed to support launch vehicle integration.
- Management and oversight of all GSE needed to support launch activities.
- Management and coordination of facilities usage in support of the program.
- Generate and conduct Test Readiness Reviews, consent to fueling and Launch Readiness Reviews as required by the program.
- Hardware nonconformance and Test Failure investigation and resolution.
- Pack and Ship of the spacecraft and all required GSE to the launch site.
- Launch Site Integrated System Testing.
- Combined Space Debris Assessment Report/End-of-Life Plan (SDAR/EOLP) (CDRL A025)
- Launch Vehicle Support Installation.
- Spacecraft Propellant loading.
- Spacecraft launch site flight closeouts.
- Launch Countdown.
- Return shipment of GSE.

4.7.3. The Contractor shall manage, plan, and execute launch site operations for the spacecraft, to include packing and shipment to the launch site, and return of GSE following launch.

4.8. Launch Operations Support

4.8.1. Launch Support Documentation

The contractor shall provide the following program and engineering documentation:

- Missile System Prelaunch Safety Package (CDRL A019)
- Systems level hazards analysis
- Launch Vehicle to Space Vehicle ICDs
- Finite Element Model (available to the launch provider)
- Coupled loads analysis at the integrated LDPE system level (includes all payloads)
• System level thermal models (available to the launch provider)

4.8.2. The Contractor shall conduct working group meetings and launch range meetings via teleconference on an as needed basis.

4.9. Deliverables

4.9.1. Launch site hardware deliverables list includes:
  • Fully integrated and tested spacecraft.
  • Electrical Ground Support Equipment for pre-launch testing.
  • Mechanical GSE to support launch vehicle integration.
  • GSE to support launch site fueling.
  • Final flight Software (Build 4).
  • Launch Support Software
  • Operations Software

All deliverable hardware must comply with system safety requirements contained in MIL-STD 882E, Section 4 "General Requirements" for any deliverable systems or hardware.

4.9.2. The Contractor shall provide the Contract Data Requirements (CDRL) items.
  A001 - Technical Status Report
  A002 - Funds and Man-Hours Expenditure Report
  A003 - Presentation Material
  A004 - Final Report - End Item Data Package (EIDP) (If Phase-2 is awarded)
  A006 - Test Plan (If Phase-2 is awarded, payloads must be incorporated)
  A007 - Data Accession List (DAL)
  A009 - Government Property Physical Inventory Count or Custodial Balance Report
  A010 - Recurring Hardware Requirements Verification Documentation (modify and maintain the RVM to include payloads)
  A012 - Scientific Report - Comprehensive Functional and Performance Test Report (Including payloads)
  A013 - Technical Report - External Interface Control Document (Payload ICDs)
  A014 - Computer Software Product End Items (Including Software to support payloads)
  A015 - Software Requirements Specification (Modified for unique payload development)
  A016 - As-Built Configuration List (Including payloads)
  A017 - Product Drawings/Models and Associated Lists (Incorporating payloads)
  A018 - Integrated Master Schedule (IMS)
  A019 - Missile System Pre-Launch Safety Package (MSPSP)
  A020 - COMSEC Management Plan
  A023 - Review Package - Test Readiness Review
  A025 - Combined Space Debris Assessment Report/End-of-Life Plan (SDAR/EOLP)
  A027 - Review Package - Payload Accommodation Design Review (PADR)
  A029 - Contract Invoicing and Payment Report
4.10. **Review:**

The Contractor shall conduct and attend the reviews required to support payload incorporation into the LDPE mission and integration of the LDPE fully integrated system onto the launch vehicle.

4.10.1. The Contractor shall conduct a Payload Accommodation Design Review (PADR) at their facility (CDRL-A027). The purpose of the PADR is to evaluate the detailed design for suitability and technical adequacy of LDPE integrated with payloads to meet mission requirements. This review determines the readiness and ability of the LDPE to accommodate and support the proposed payloads.

4.10.2. The Contractor shall support all Launch Vehicle Integrated Working group meetings and reviews. This support shall include support documentation and analysis required to meet the specific launch vehicle configuration and environments to include:

- System level Coupled Loads Analysis (CLA) and Finite Element Models
- Thermal Models
- EMI/EMC Interference
- LDPE System Level - Launch Vehicle Interfaces

4.11. **Close-out**

Throughout the program, the Contractor shall ensure that sufficient resource reserves are held for the close-out of the contract activities including disposition of data, computer systems, security closure items, and final contractual disposition.
5. **Space Segment Operations**


5.1.2. The Contractor shall provide technical support for on-orbit operations. This includes program office and systems engineering activities, as well as subsystem support and satellite operators. This support consists of 120 days of Early-Orbit operations support by the contractor, to include on-orbit checkout, system wring-out, developmental testing by Contractor, verified software modifications, and transition to Government operators. This is followed by 245 days of reach-back on-orbit support to the Government for up to 4 hours per day, 5 days per week. CDRLs A001, A006, A014, A015, A016, A019, A025 (if required), A026.

5.1.3. Contractor must identify safety-critical components of those systems and/or hardware, and software interfaces with those components. The Contractor must test and verify the safety critical hardware and software for safety acceptance.
Appendix A: LDPE Technical Requirements

Detailed requirements are For Official Use Only -- Distribution C.
   See directions on bidders’ library for access.
Appendix B: Minimum Platform to Payload Interface Capability Matrix

Detailed requirements are For Official Use Only -- Distribution C.
See directions on bidders’ library for access.
Appendix C: Ground, Handling and Transportation Requirements

C1.0 Fabrication, Transportation, Handling, and Storage

The normal modes of transportation to be considered shall include air, sea and land. The environments experienced during the fabrication, delivery, storage, and installation phases shall be controlled so as to be significantly less severe than launch and ascent conditions.

C2.0 Ground Handling and Transportation

The loads generated during ground handling and transportation are enveloped by the launch loads defined in this document, and are shown via Table C1 below. The coordinate systems for both air and ground transportation are provided in Figure C1.

### Table C1: Quasi-Static Loads for Transportation

<table>
<thead>
<tr>
<th>Load Case</th>
<th>Acceleration (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Longitudinal</td>
</tr>
<tr>
<td>Handling Load Case, Floor Roll/ Crane Lift, Case 1</td>
<td>±0.25</td>
</tr>
<tr>
<td>Handling Load Case, Floor Roll/ Crane Lift, Case 2</td>
<td>0</td>
</tr>
<tr>
<td>C-5 Aircraft Transportation, Case 1</td>
<td>+2</td>
</tr>
<tr>
<td>C-5 Aircraft Transportation, Case 2</td>
<td>-1</td>
</tr>
<tr>
<td>C-5 Aircraft Transportation, Case 3</td>
<td>0</td>
</tr>
<tr>
<td>C-5 Aircraft Transportation, Case 4</td>
<td>0</td>
</tr>
<tr>
<td>C-5 Aircraft Transportation, Case 5</td>
<td>0</td>
</tr>
<tr>
<td>Road Transportation, Air Ride, Case 1</td>
<td>±1.5</td>
</tr>
<tr>
<td>Road Transportation, Air Ride, Case 2</td>
<td>0</td>
</tr>
<tr>
<td>Road Transportation, Air Ride, Case 3</td>
<td>0</td>
</tr>
<tr>
<td>Road Transportation, Air Ride, Case 4</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1) Directional loads are assumed to act simultaneously within each load case.
2) Vertical accelerations include the effect of gravity (-1 g) and can be applied directly to the article being analyzed.

3) Lateral acceleration should be applied in either the positive or negative direction, whichever causes the greater stress. If asymmetry of a design leads to neither the positive nor negative direction clearly resulting in an enveloping stress, then individual positive and lateral cases must be run.

4) Cases do not need to be considered if they are entirely enveloped by other cases. The rational for eliminating a case must be documented in detail with consideration given to familiar modes that are sensitive to load direction, such as gapping and buckling.

Handling and transportation equipment shall be designed to limit component or subsystem loads to significantly lower levels than those introduced during launch and on-orbit operations.

All Mechanical Ground Support Equipment (MGSE) including, but not limited to shipping containers, lift slings, hoists, and handling fixtures/dollies shall be designed so that the loads experienced by the flight equipment during ground operations do not exceed flight loads. Minimum design loads applied to MGSE shall be as presented in Table C2. In each case, vertical and horizontal loads can apply simultaneously. Overturning stability must be checked for all combined cases.

Whether the MGSE design loads are the minimum loads specified in Table C2 or a higher set of loads, the method of transportation for spacecraft modules and equipment containers shall be such as to ensure that the actual levels applied to the MGSE do not exceed the MGSE design loads.

MGSE used with flight hardware shall be designed for the minimum design factors summarized in Table C2.
Table C2. Minimum MGSE Loads

<table>
<thead>
<tr>
<th>Type of MGSE</th>
<th>Vertical</th>
<th>Horizontal</th>
<th>Yield Factor of Safety</th>
<th>Ultimate Factor of Safety</th>
<th>Static Proof Test Factor</th>
<th>Dynamic Proof Test Factor</th>
<th>No Proof Test - Factor of Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static MGSE (Test Stands)</td>
<td>1.0 g down</td>
<td>±0.25 g</td>
<td>1.93</td>
<td>2.5</td>
<td>1.75</td>
<td>N/A</td>
<td>3.9</td>
</tr>
<tr>
<td>Dynamic MGSE (Vertical Handling, Hoisting)</td>
<td>1.0 g down</td>
<td>N/A</td>
<td>3.75</td>
<td>5.0</td>
<td>2.0</td>
<td>N/A</td>
<td>7.5</td>
</tr>
<tr>
<td>Dynamic MGSE (Horizontal &amp; Vertical Handling, Dollies)</td>
<td>1.0 g down</td>
<td>±0.25 g</td>
<td>3.75</td>
<td>5.0</td>
<td>3.0</td>
<td>2.0</td>
<td>7.5</td>
</tr>
<tr>
<td>Transportation MGSE (Shipping Container)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static</td>
<td>±3.0 g</td>
<td>±2.0 g</td>
<td>3.75</td>
<td>5.0</td>
<td>3.0</td>
<td>N/A</td>
<td>7.5</td>
</tr>
<tr>
<td>Sine</td>
<td>2.5 to 35 Hz: 1.3g</td>
<td>35 to 48 Hz: 3.0g</td>
<td>48 to 200 Hz: 5.0g</td>
<td>1.93^7</td>
<td>2.5^7</td>
<td>N/A</td>
<td>1.75^7</td>
</tr>
<tr>
<td>Random</td>
<td>50 to 200 Hz: +6dB/octave</td>
<td>200 to 2000 Hz: 0.005 g^2/Hz</td>
<td>Composite total: 3.3 grms</td>
<td>1.93^7</td>
<td>2.5^7</td>
<td>N/A</td>
<td>1.75^7</td>
</tr>
<tr>
<td>Shock</td>
<td>20 g terminal saw-tooth shock pulse of 11 msec duration in any direction</td>
<td></td>
<td></td>
<td>1.93^7</td>
<td>2.5^7</td>
<td>N/A</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Notes:
1) Values for the vertical condition are gross; i.e., include normal 1.0 “g”.
2) Horizontal loads are to be applied with vertical loads simultaneously.
3) These factors apply to appropriate loads derived by dynamic analysis of MGSE. The analysis should include the appropriate MUF.
4) Commercial Part capability should be derated by a factor of 1.75.
5) The 1.75 factor is to be applied on the load predicted by dynamic analysis. The mass shall be representative of actual article(s) to validate the isolation system.

Additional Notes:
1) Static MGSE is defined as that MGSE where the rated load is stationary (fixtures, stands, etc.).
2) Dynamic MGSE is defined as that MGSE where the rated load is intended to be moved (carts, rollover fixtures, etc.).
3) The total design load is equal to the maximum weight of the flight equipment times the load factor times the appropriate factor of safety from Table C2.
4) Sine, Random & Shock loads are to be applied in each axis individually. These environments are given to design shipping container isolation systems such that the transportation equipment shall be designed to limit satellite system and subsystem loads to significantly lower levels than those introduced during launch and on-orbit operations.
5) Dynamic Vibration Test fixtures are special cases with design factors determined by the Environmental Test Group.
6) Equipment may suffer extremes of temperature during transportation and they shall be designed to withstand the environments. Containers in transit or in storage shall be given protection or environmental conditioning as necessary to ensure that the non-operating temperature limits for the equipment inside are not exceeded under extreme exterior temperatures from –40°C to +65°C during a period of eight hours.
Appendix D: LDPE Payload Reference Classes

D1.0 Introduction to the LDPE Payload Reference Classes

1.1 Purpose/Scope

LDPE hosted payloads are permanently attached to the LDPE Platform via a 15-in circular aperture compatible with ESPA standards, or a 4-point structure. LDPE hosted payloads are provided spacecraft bus services by the LDPE Platform for the duration of the mission (see SOW Fig 1 and 2).

Separable LDPE payloads are attached to the LDPE Platform using Planetary Systems Corporation (PSC) Mark II 15-inch Motorized Lightband (MLB) Separation System. Separable payloads are provided limited spacecraft bus services until they are separated from the LDPE Platform.

The LDPE Payload Reference Design Guide describes, for bidders of the LDPE Program reference payload design, three representative classes which could be manifested on LDPE spacecraft. These payload design classes were based on previous ESPA programs, and constitute a range of payloads which could be integrated to an LDPE spacecraft. Bidders should read this as a low-fidelity model of a true payload ICD document and not as a guide for secondary spacecraft designers.

1.2 Definitions

**LDPE Platform:** The LDPE Platform is the modified ESPA (or similar) structure and all associated spacecraft bus components that provide resources to LDPE payloads.

**LDPE Payload:** An LDPE Payload is any spacecraft, instrument, device, or experiment that is physically connected to the LDPE Platform during launch.

- **Hosted LDPE Payload:** Hosted Payloads are physically connected to the LDPE Platform for the full duration of the LDPE Platform’s mission, and doesn’t have a capability to be separated from the Platform.

- **Separable LDPE Payload:** Separable Payloads are physically connected to the LDPE Platform during launch, and ascension to orbit, but will separate from the Platform at some time prior to the completion of the LDPE Platform’s mission.

**LDPE Spacecraft:** The LDPE Spacecraft is an instantiation of the LDPE Platform with any combination of hosted and separable LDPE Payloads physically connected to the LDPE Platform.
1.3 General LDPE Program Description

The primary objective of the LDPE program is to provide a standardized, multiple-mission-orbit, ESPA-based satellite bus that can host multiple separable and/or hosted satellite payloads on any future EELV launch mission with available launch mass margin.

Air Force Space Command has directed The Air Force Space and Missile Systems Center Launch Enterprise Directorate, and Advanced Systems and Development Directorate to identify at least one rideshare candidate mission per fiscal year if feasible, and procure the necessary program materials to meet that objective. The LDPE Platform will provide the Department of Defense with the capability to leverage the available mass margin for any future EELV launches based off its modular bus design with minimal Non-Recurring Engineering (NRE) between each launch on which it is utilized.

D2. LDPE Payload classes & Examples

D2.1. First Class Payload Service

<table>
<thead>
<tr>
<th>Peak Power</th>
<th>Data</th>
<th>Pointing</th>
<th>Mass</th>
<th>Payload Data Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>750 watts</td>
<td>6 GB</td>
<td>&lt; 100 μrad</td>
<td>140-181 kg</td>
<td>&gt; 24MB/s</td>
</tr>
</tbody>
</table>

Example of a First Class Payload

<table>
<thead>
<tr>
<th>Peak Power</th>
<th>Data</th>
<th>Pointing</th>
<th>Mass</th>
<th>Payload Data Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>270 watts</td>
<td>3 GB per collect</td>
<td>12 μrad</td>
<td>155 kg</td>
<td>24MB/s</td>
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### D2.2. Second Class Payload Service

<table>
<thead>
<tr>
<th>Peak Power</th>
<th>Data</th>
<th>Pointing</th>
<th>Mass</th>
<th>Payload Data Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>400 watts</td>
<td>4 GB</td>
<td>&lt; 200 μrad</td>
<td>60-140 kg</td>
<td>&lt; 15 MB/s; &gt; 5 MB/s</td>
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</tbody>
</table>

#### Example of a Second Class Payload

<table>
<thead>
<tr>
<th>Peak Power</th>
<th>Data</th>
<th>Pointing</th>
<th>Mass</th>
<th>Payload Data Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>216 watts</td>
<td>1.6 GB per collect</td>
<td>87 milli-rad</td>
<td>75 kg</td>
<td>&gt; 5 MB/s</td>
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### D2.3. Separable Class Payload Service

<table>
<thead>
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<th>Power</th>
<th>Data</th>
<th>Pointing</th>
<th>Mass</th>
<th>Payload Data Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 watts</td>
<td>500 kB</td>
<td>N/A</td>
<td>&lt; 181 kg</td>
<td>N/A</td>
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</table>

#### Example of Separable Class Payload

<table>
<thead>
<tr>
<th>Power</th>
<th>Data</th>
<th>Pointing</th>
<th>Mass</th>
<th>Payload Data Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 watts</td>
<td>N/A</td>
<td>N/A</td>
<td>76 kg</td>
<td>N/A</td>
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### Appendix E: Acronym List

<table>
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<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>AFSCN</td>
<td>Air Force Satellite Control Network</td>
</tr>
<tr>
<td>APL</td>
<td>Auxiliary Payload (used interchangeably with “secondary payload”)</td>
</tr>
<tr>
<td>ATP</td>
<td>Authorization to Proceed</td>
</tr>
<tr>
<td>BL-BFT</td>
<td>Bus Level-Baseline Functional Test</td>
</tr>
<tr>
<td>C&amp;DH</td>
<td>Command and Data Handling</td>
</tr>
<tr>
<td>CDR</td>
<td>Critical Design Review</td>
</tr>
<tr>
<td>CDRL</td>
<td>Contract Data Requirements List</td>
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<td>COMSEC</td>
<td>Communications Security</td>
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<tr>
<td>CTL</td>
<td>Command and Telemetry List</td>
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<tr>
<td>EIDP</td>
<td>End Item Data Package</td>
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<tr>
<td>EMC</td>
<td>Electromagnetic Coupling</td>
</tr>
<tr>
<td>EMI</td>
<td>Electromagnetic Interference</td>
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<td>EPS</td>
<td>Electrical Power Subsystem</td>
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<td>FCLA</td>
<td>Final Coupled Loads Analysis</td>
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<tr>
<td>FEM</td>
<td>Finite Element Method</td>
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<tr>
<td>FSW</td>
<td>Flight Software</td>
</tr>
<tr>
<td>GEO</td>
<td>Geosynchronous Earth Orbit</td>
</tr>
<tr>
<td>GFE</td>
<td>Government Furnished Equipment</td>
</tr>
<tr>
<td>GN&amp;C</td>
<td>Guidance, Navigation, and Control</td>
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<td>GSE</td>
<td>Ground Support Equipment</td>
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<td>HGA</td>
<td>High Gain Antenna</td>
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<td>I&amp;T</td>
<td>Integration and Test</td>
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<td>IAW</td>
<td>In Accordance With</td>
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<td>Acronym</td>
<td>Description</td>
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<tr>
<td>ICD</td>
<td>Interface Control Document</td>
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<tr>
<td>IDR</td>
<td>Interim Design Review</td>
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<td>ILC</td>
<td>Initial Launch Capability</td>
</tr>
<tr>
<td>IMS</td>
<td>Integrated Master Schedule</td>
</tr>
<tr>
<td>LV</td>
<td>Launch Vehicle</td>
</tr>
<tr>
<td>MCSD</td>
<td>Management Control System Description</td>
</tr>
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<td>MLI</td>
<td>Multi-layer Insulation</td>
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<td>MSPSP</td>
<td>Missile System Prelaunch Safety Package</td>
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<td>NRE</td>
<td>Non-Recurring Engineering</td>
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<td>OOH</td>
<td>On-Orbit Handbook</td>
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<td>PCLA</td>
<td>Preliminary Coupled Loads Analysis</td>
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<td>PDR</td>
<td>Preliminary Design Review</td>
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<td>PITL</td>
<td>Processor in the Loop</td>
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<td>PMP</td>
<td>Parts, Materials, and Processes</td>
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<td>PSR</td>
<td>Pre-Ship Review</td>
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<td>QSP</td>
<td>Quality System Procedure</td>
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<td>RUAG</td>
<td>RUstungs Unternehmen Aktiengesellschaft</td>
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<td>RVTM</td>
<td>Requirements Verification and Traceability Matrix</td>
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<td>S/C</td>
<td>Spacecraft</td>
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<td>SIS Rev. B</td>
<td>EELV Standard Interface Specification Revision B</td>
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<td>SL-BFT</td>
<td>System Level-Baseline Functional Test</td>
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<td>SGLS</td>
<td>Space-Ground Link System</td>
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<td>SOW</td>
<td>Statement of Work</td>
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Section L

“Information to Offerors and Instructions for Proposal Preparation”

December 2016
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No table of figures entries found.
SECTION L -

INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS OR RESPONDENTS

1. Program Structure and Objectives

1.1. General Requirements – The Advanced Systems and Development Directorate (SMC/AD) is hereby seeking sources to produce a Long Duration Propulsive ESPA (LDPE); integrate payloads; support launch services; and on-orbit operations. The general requirements for the LDPE and associated services are defined in the Statement of Work (SOW).

1.2. Launch Model – LDPE is currently manifested with another Space Test Program (STP) rideshare mission, STPSat-6. The acquisition of a launch and final launch integration for the STP-3 mission, composed of the STPSat-6 and LDPE vehicles (with secondary payloads), is a separate effort.

2. General Proposal Preparation Instructions

2.1. Data and Information – The Offeror's proposal must include all data and information requested in this document and must be submitted in accordance with these instructions. The offer shall be compliant with the requirements as stated in Section L, SOW, Contract Data Requirements List (CDRL), and Model Contract. Non-conformance with the instructions provided in this document may result in an unfavorable proposal evaluation.

2.2. Written Proposal – The Offeror’s proposal shall consist of a written submittal. All information provided, as long as it is consistent with the constraints of this RFP (e.g. page limitations), is subject to evaluation as described in Section M.

2.3. Effective Evaluation – The proposal shall be clear, concise, and include sufficient detail for effective evaluation and for substantiating the validity of stated claims. The proposal shall not simply rephrase or restate the Government's requirements but rather provide convincing rationale to address how the Offeror intends to meet these requirements. Offerors shall assume that the Government has no prior knowledge of their systems, processes, facilities and experience, and will base its evaluation solely on the information presented in the Offeror's proposal.

2.4. Unnecessary Documents – Elaborate brochures or documentation, binding, detailed artwork, or other embellishments are unnecessary and are not desired.

2.5. Valid Proposal Dates – The proposal acceptance period is specified in Section A of the model contract/solicitation. The Offeror shall make a clear statement in Section A of the proposal documentation volume that the proposal is valid through this date.
2.6. Proposal Retention – In accordance with FAR Subpart 4.8 (Government Contract Files), the Government will retain one hardcopy of all unsuccessful proposals. Unless the Offeror requests otherwise, the Government will destroy extra copies of such unsuccessful proposals.

2.7. General Information

2.7.1. Point of Contact – The Contracting Officer (CO) is the sole point of contact for this acquisition. Address any questions or concerns you may have to the CO. Written requests for clarification may be sent to the CO at the address located in Section A of the model contract/solicitation.

2.7.2. Debriefings – The CO will promptly notify Offerors of any decision to exclude them from the competitive range; whereupon, they may request and receive a debriefing in accordance with FAR 15.505. Offerors excluded from the competitive range may request a pre-award debriefing or they may choose to wait until after the source selection decision to request a post-award debriefing. However, Offerors excluded from the competitive range are entitled to no more than one debriefing. The CO will notify unsuccessful Offerors in the competitive range of the source selection decision in accordance with FAR 15.506. Upon such notification, unsuccessful Offerors may request and receive a debriefing. Offerors desiring a debriefing must make their request in accordance with the requirements of FAR 15.505 or 15.506, as applicable.

2.7.3. Discrepancies – If an Offeror believes the requirements in these instructions contain an error, omission, or are otherwise unsound, the Offeror shall immediately notify the CO in writing with supporting rationale as well as the remedies the Offeror is asking the CO. The Offeror is reminded that the Government reserves the right to award this effort based on the initial proposal, as received, without discussion, to include matters of additional or substitute pages of the initial proposal.

2.7.4. Electronic Reference Documents (Bidder’s Library) – Bidder’s Library documents for this solicitation will be available on request from the CO. Documents will be released via AMRDEC Safe Access File Exchange to potential bidders on file with the CO. Contractors must be registered with the Joint Certification Program (JCP) at https://www.dlis.dla.mil/JCP/Default.aspx”.

2.7.5. Oral Presentations – Oral Presentations will not be conducted for this acquisition.

2.7.6. Communications – Exchanges of source selection information between Government and Offerors will be controlled by the CO. Email may be used to transmit such information to Offerors only if the email can be sent and received encrypted and includes “Source Selection Information - See FAR 2.101 & 3.104” in the Subject line. Otherwise, source selection information will be transmitted via certified mail, delivery service, or facsimile (facsimile number will be provided to Offerors after submittal of proposals, as necessary).
2.8. Electronic Offers –

2.8.1. The content and page size of electronic copies must be identical to the hard copies.

2.8.2. For electronic copies, indicate on each CD or DVD-ROM the volume number and title.

2.8.3. Use separate files to permit rapid location of all portions, including subfactors, appendices, annexes, and attachments, if any.

2.8.4. The Offeror shall submit all volumes in electronic format, using read/write CDs or DVD ROMs. Each volume shall be on a different CD or DVD ROM. If files are compressed, the necessary decompression program must be included.

2.8.5. The electronic copies of the proposal shall be submitted in a format readable and editable by Microsoft (MS) Office Word 2013, MS Office Excel 2013, MS Office Project 2013, and MS Office Power Point 2013, as applicable.

2.8.6. In the event that hard copies and electronic copies of a proposal are submitted, and if there are any discrepancies between the hard copies and the electronic copies of the proposal, the hard copies marked original will be used for evaluation.

2.9. Distribution - The hard copy of the proposal will be identified as the "original." The proposal shall be addressed to the CO and mailed or hand carried to:

SMC/ADK
Attn: Maj Edgar Alonso-Bernal
3548 Aberdeen Ave SE
Bldg 413
Kirtland AFB, NM 87117

Proposals received after the date and time specified shall be treated in accordance with FAR 52.215-1.

2.10. Document Organization

2.10.1. Organization/Number of Copies/Page Limits - The Offeror shall prepare the proposal as set forth in the ProposalOrganization Table (Table 2-1 below). The titles and contents of the volumes shall be as defined in this table, all of which shall be within the required page limits and with the number of copies as specified. The volumes identified in the table shall be separately bound in three-ring, loose-leaf binders, as necessary.
<table>
<thead>
<tr>
<th>VOLUME</th>
<th>Relevant Attach. L Paragraph</th>
<th>VOLUME TITLE/ SECTION</th>
<th>PAGE LIMIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>4</td>
<td>FACTOR 1: TECHNICAL</td>
<td>50</td>
</tr>
<tr>
<td>II</td>
<td>5</td>
<td>FACTOR 2: SMALL BUSINESS</td>
<td>1</td>
</tr>
<tr>
<td>III</td>
<td>6</td>
<td>FACTOR 3: PRICE/COST</td>
<td>Unlimited</td>
</tr>
<tr>
<td>IV</td>
<td>7</td>
<td>Contract Documentation</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>

NOTE: All volumes shall be submitted with one paper copy and two electronic copies unless otherwise specified. Electronic copies must conform to the same requirements as the paper copy.

*The Small Business Volume may be bound with the Technical Volume

**Refer to FedBizOpps for actual date and time of submission deadlines.

2.10.2. Page Limitations –

- Document page limitations shall be treated as maximums. If exceeded, the excess pages will not be read or considered in the evaluation of the proposal and excess pages will be returned to the Offeror as soon as practicable. The specified page limits for Evaluation Notice (EN) responses will be identified in the letters forwarding the ENs to the Offerors. Unless otherwise specified, each page shall be counted except the following: cover pages, tables of contents, tabs, glossaries, and correlation matrices.
- A page is defined as each face of a sheet of paper containing information. When both sides of a sheet display printed material, it shall be counted as two pages.
- Page size shall be 8.5 x 11 inches, not including foldouts. Pages shall be single spaced.
- Except for the reproduced sections of the solicitation document, the text size shall be 12 point.
- Tracking, kerning, and leading values shall not be changed from the default values of the word processing or page layout software.
- Use at least 1-inch margins on the top and bottom and ¾-inch side margins.
- Pages shall be numbered sequentially by volume.
- These page sizes and format restrictions shall also apply to EN responses.
- Legible tables, charts, graphs, and figures shall be used wherever practical to depict organizations, systems, layout, implementation schedules, plans, etc.
- Tables, charts and other graphical displays shall be uncomplicated, legible, and shall not exceed 11 x 17 inches in size.
- Foldout pages shall fold entirely within the volume and each 8.5 x 11 inch surface of a foldout shall be counted as a separate page. Foldout pages may only be used for large tables, charts, graphs, diagrams, and schematics, but not for pages of text.
- For tables, charts, graphs, and figures, text size less than 12 point font is acceptable however, shall be written in no less than 10 point font.

2.10.3. Classified Information: Do not include classified information in proposals.

2.10.4. Cross-Referencing – To the greatest extent possible, each volume shall be written on a stand-alone basis so that its contents may be evaluated with minimal cross referencing to other volumes of the proposal. Information required for proposal evaluation not found in its designated volume will be assumed to have been omitted from the proposal. Cross-referencing within a proposal volume is permitted where cross-referencing conserves space without impairing clarity. The Offeror shall provide, as an attachment to the Technical Volume, a Solicitation Correlation Matrix.

2.10.5. Indexing – Each volume shall contain a more detailed table of contents to delineate the contents within that volume which does not count against page limitations. Tab indexing shall be used to identify sections.

2.10.6. Glossary of Abbreviations and Acronyms – Each volume shall contain a glossary of all abbreviations and acronyms used and an explanation for each. Glossaries do not count against the page limitations for their respective volumes.

2.10.7. Binding and Labeling – Each volume of the proposal shall be separately bound in a three- ring, loose leaf binder permitting the volume to lie flat when open. Staples shall not be used. A cover sheet shall be bound in each book, clearly marked as to volume number, title, copy number, solicitation identification, and the Offeror’s name. The same identifying data should be placed on the spine of each binder. All unclassified binders shall have a color other than red or other applicable security designation colors. Be sure to apply all appropriate markings including those prescribed in accordance with FAR 52.215-1(e), Restriction on Disclosure and Use of Data, and FAR 3.104-4, Disclosure, Protection, and Marking of Contractor Bid or Proposal Information and Source Selection Information.

3. Reserved

4. Volume I - Technical Volume
The Offerors shall address the technical solution for meeting or exceeding the Government’s minimum performance or capability requirements, as described in the SOW for each technical subfactor. All the requirements specified in the solicitation are mandatory. By the Offeror’s proposal submission, you are representing that your firm will perform all the requirements specified in the solicitation. It is not necessary to state this in the Offeror’s proposal. Do not
merely reiterate the objectives or reformulate the requirements specified in the solicitation. The Technical Volume shall be specific and complete. Legibility, clarity, and coherence are very important.

In the event that subcontractors are proposed as being involved in conducting this work, their relationships during the effort shall be explained and their proposed contributions to the work shall be identified and integrated into each part of the proposal, as appropriate.

The Technical Volume shall be organized in accordance with Table 4.

<table>
<thead>
<tr>
<th>Table 4, Technical Volume Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAB</td>
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<tr>
<td>----</td>
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<td>1</td>
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<td>5</td>
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<tr>
<td>6</td>
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</tr>
</tbody>
</table>
4.1. Subfactor A: Design Performance

Describe your design and provide supporting evidence for satisfying the Government’s essential performance requirements as identified in Table 4-1. Supporting evidence may include, but is not limited to, vendor specifications, test results, and model details and results.

<table>
<thead>
<tr>
<th>Table 4-1, SOW Appendix A: LDPE Essential Performance Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
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<td>1.4.3</td>
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<td>1.10</td>
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<td>2.3</td>
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<td>3.5</td>
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<tr>
<td>3.8</td>
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<tr>
<td>3.12</td>
</tr>
</tbody>
</table>

4.2. Subfactor B: Integration Planning

For cost purposes, assume one hosted and one separating payload from each of the payload classes identified in SOW, Appendix D, LDPE Payload Classes, provide a hierarchical task list, with descriptions and durations, for payload integration from notification at L-12 months through payload integration testing. The task list must address SOW paragraph 4, along with paragraphs 1 and 2, requirements.

4.3. Subfactor C: Schedule

Describe your approach to schedule management. Provide an integrated master schedule (IMS) employing your schedule management approach for on-time delivery of integrated LDPE articles to the Launch Integration Services contractor facility at authority to proceed (ATP) +21 months for the first and second planned launches assuming ATP in Apr 2017 and Apr 2018. For both LDPE articles, assume one hosted and one separating payload from each of the payload class services identified in SOW, Appendix D, LDPE Payload Classes, identified at L-12 months.

Provide the IMS electronically in MS Project format. Additionally, the IMS must follow the guidelines provided in CDRL A018.

4.4. Technical Volume Appendices

4.4.1. Appendix 1: The Offeror shall provide a Solicitation Correlation Matrix that cross references between Sec L, Sec M, the Contractor Proposal, and SOW. The Solicitation Correlation Matrix shall not contain informational notes, as the volumes provide ample opportunity for discussion and description of the Offeror's approach.
5. **VOLUME II – Small Business**

The Government anticipates certain portions of this effort being subcontracted to small businesses in order to meet statutory goals. Large businesses shall consider, to the highest extent possible, subcontracted opportunities with small businesses.

All offerors (except small businesses proposing as a Prime Contractor) shall provide the below information:

- Total dollars anticipated to be subcontracted to small businesses: $____________________
- Total proposed contract value: $____________________
- % anticipated to be subcontracted to small businesses (5% goal): _____%

Offerors shall ensure that the information provided as above is consistent with the information included in the Small Business Subcontracting Plan submitted in accordance with FAR 52.219-9.

6. **VOLUME III – Cost/Price**

6.1. **General Instructions General Cost Volume Instructions.**

The Cost/Price Factor volume shall contain the information requested in the paragraphs below. The offeror shall submit other-than-certified cost or pricing data (per FAR 15.403-1(b), 15.403-3(a), and FAR 15.403-5) for the Government evaluation. The proposal must contain sufficient details for the Government evaluation of reasonableness, realism, and unbalanced pricing, and for the Government’s calculation of the Most Probable Cost which will become part of the Total Evaluated Price for the best value decision. Compliance with these requirements is mandatory and failure to comply may result in a determination of non-compliance. The burden of proof for credibility of proposed amounts rests with the offeror. The price evaluation will be an assessment of the data submitted in the Cost/Price Volume; the Government will not be responsible for evaluating offeror data submitted outside the Cost/Price Volume. If, after receipt of proposals, the PCO determines that there is insufficient data available to complete the cost/price evaluation, the offeror shall be required to submit additional cost or pricing data. The use of offeror formats is encouraged provided that all the required information is submitted.

The Government issued this solicitation with the anticipation of adequate price competition; therefore, any cost/price documentation requested shall not be certified cost or pricing data. However, in the event that adequate price competition does not exist after receipt of proposals, the Government reserves the right to request additional cost or pricing data as necessary from the offeror and its subcontractors and may conduct negotiations with the offeror, pursuant to FAR Part 15.403-4, in order to ensure a reasonable and realistic price/cost. Furthermore, the offeror may be required to provide a Certificate of Current Cost or Pricing Data prior to award, pursuant to FAR 15.406-2. The offeror shall acknowledge the requirement to provide additional cost or pricing information and certify the data prior to award if/when requested by the Government.
6.1.1 Cost/Price Volume Organization. The offeror shall provide a consolidated Cost/Price volume, organized as follows:

<table>
<thead>
<tr>
<th>Topic</th>
<th>File Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table of Contents</td>
<td></td>
</tr>
<tr>
<td>Section 1 – Introductory Section</td>
<td></td>
</tr>
<tr>
<td>Section 2 – Printed Cost Element Summaries for Cost CLINs</td>
<td></td>
</tr>
<tr>
<td>Section 3 – Discussion of Cost Elements for Cost CLINs</td>
<td></td>
</tr>
<tr>
<td>Section 4 – Discussion of Business Systems, GFP Requirements, offeror Unique Approaches</td>
<td></td>
</tr>
<tr>
<td>Section 4 – Cost Attachments</td>
<td></td>
</tr>
<tr>
<td>Attachment CP2 to Volume III: Working Excel Files – Mapping of Technical Proposal to Bases of Estimates</td>
<td></td>
</tr>
</tbody>
</table>

6.1.2 Rounding. All dollar amounts provided shall be rounded to the nearest dollar. All loaded labor rates shall be rounded to the nearest penny.

6.1.3 Electronic File Submission. The official copy of the offeror's Cost/Price Volume shall be submitted in the following electronic formats as applicable: PDF Acrobat 8.0 (with "Select", "Print", and "Copy" enabled to allow for text and graphics transfer), Microsoft (MS) Word 2013, MS Excel 2013, MS Project 2013, and MS PowerPoint 2013.

All files constructed in Microsoft Excel shall use formulas instead of just pasted values to preserve any calculation logic within the file, including summaries and totals. The offeror shall provide electronic copies of all cost/pricing models that are used for developing its estimate. All Excel files shall have working formulas. Offerors shall use the “group and Outline” feature of MS excel to facilitate the ease of proposal analysis. If the model requires multiple MS Excel spreadsheets, the “link cell” feature shall be used. The cost/price proposal submitted shall be consistent with the Offeror’s approved estimating system and shall duplicate the logic and mathematical formulas reflected in the official copy of its proposal.

6.2 Introductory Section of the Cost/Price Volume.

As an introduction, the offeror shall provide comprehensive narrative support for the Cost/Price proposal volume. The narrative shall explain the philosophy, methodology and assumptions used in proposing the dollar amounts. Any apparent imbalances in the pricing, any unrealistically low amounts, and any apparent pricing anomalies shall be clearly explained. The Government expects that consistency exists between the Technical and Cost/Price volume; any offeror-intended inconsistency shall be clearly explained and
convincingly demonstrate how the promised performance will be achieved at the proposed cost/price.

<table>
<thead>
<tr>
<th>CLIN</th>
<th>Title</th>
<th>Contract Type</th>
<th>Philosophy in Proposing the Dollar Amounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>Space Vehicle Assembly and Integration, and Test</td>
<td>FFP</td>
<td>Offeror to comment</td>
</tr>
<tr>
<td>0002</td>
<td>Data &amp; Reports</td>
<td>FFP</td>
<td>Offeror to comment</td>
</tr>
<tr>
<td>0003</td>
<td>Travel – NTE</td>
<td>COST</td>
<td>Offeror to comment</td>
</tr>
<tr>
<td>1001</td>
<td>Payload Integration</td>
<td>CPFF</td>
<td>Offeror to comment</td>
</tr>
<tr>
<td>1002</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
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<tr>
<td>1003</td>
<td>Launch Services Support</td>
<td>CPFF</td>
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<tr>
<td>1004</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
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<tr>
<td>1005</td>
<td>On-Orbit &amp; Anomaly Support, Software Upgrades</td>
<td>CPFF</td>
<td>Offeror to comment</td>
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<tr>
<td>1006</td>
<td>Data &amp; Reports</td>
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<td>Offeror to comment</td>
</tr>
<tr>
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<td>Space Vehicle Assembly and Integration, and Test</td>
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<td>Data &amp; Reports</td>
<td>CPFF</td>
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<td>2005</td>
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<td>Launch Services Support</td>
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<td>Description</td>
<td>Type</td>
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</tr>
<tr>
<td>------</td>
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<tr>
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<td>On-Orbit &amp; Anomaly Support, Software Upgrades</td>
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<td>Payload Integration</td>
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<td>Long-Lead Parts</td>
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<td>3009</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
<td>Offeror to comment</td>
</tr>
</tbody>
</table>

6.2.1 Time-Phased, Person-Loading Graph. The offeror shall provide a time-phased, person-loading bar graph – one for each CLIN. The vertical axis shall be in hours. The horizontal axis shall in quarters. The bars will be layered – bottom for prime hours and each stack on top will be for each non-prime with at least 20% of the proposed total effort.

6.2.2 Offeror Summary Table (Prime Plus Non-Prime Companies greater than 20% of total proposed dollars) The offeror shall complete the table below, listing all companies – prime, subcontractors, and team members – who will be involved with the performance and management of the contract. If the relationship is not a prime-subcontractor relationship, provide the legal definition of the relationship between the entities.
### 6.3 Cost/Price Summaries.

6.3.1 Offeror’s Total Price (TP) Calculation. The offeror shall complete and submit the table below, in calculating the offeror’s proposed TP. The offeror shall comply with the following parameters in submitting the proposal amounts.

<table>
<thead>
<tr>
<th>CLIN (A)</th>
<th>Title (B)</th>
<th>Contract Type (C)</th>
<th>Proposed Cost $ (D)</th>
<th>Proposed Fee $ (E)</th>
<th>Total CLIN Amount (D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
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<td>FFP</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>0002</td>
<td>Data &amp; Reports</td>
<td>FFP</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
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<tr>
<td>0003</td>
<td>Travel – NTE $54,000</td>
<td>COST</td>
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<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
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<td>Offeror to fill in</td>
</tr>
<tr>
<td>1002</td>
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<td>CPFF</td>
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<td>Offeror to fill in</td>
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<tr>
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<td>Launch Services Support</td>
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<tr>
<td>Year</td>
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<td>FFP</td>
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</tr>
<tr>
<td>2003</td>
<td>Payload Integration</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>2004</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>2005</td>
<td>Long Lead Parts</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>2006</td>
<td>Launch Services Support</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>2007</td>
<td>Data &amp; Reports</td>
<td>FFP</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>2008</td>
<td>On-Orbit &amp; Anomaly Support, Software Upgrades</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>2009</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>3001</td>
<td>Space Vehicle Assembly and Integration, and Test</td>
<td>FFP</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>3002</td>
<td>Data &amp; Reports</td>
<td>FFP</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>3003</td>
<td>Payload Integration</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>3004</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>3005</td>
<td>Long-Lead Parts</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>3006</td>
<td>Launch Services Support</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>3007</td>
<td>Data &amp; Reports</td>
<td>FFP</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>3008</td>
<td>On-Orbit &amp; Anomaly Support, Software Upgrades</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
<tr>
<td>3009</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
<td>Offeror to fill in</td>
</tr>
</tbody>
</table>

Total Evaluated Price (TEP) $
6.3.2 Cost Elements and Supporting Details for CLINs, 1001, 1003, 1005, 2003, 2006, 2008, 3003, 3006 & 3008. (Note: Cost Element Summaries are NOT requested for Firm-Fixed Price CLINs)

Cost Element Summary Pricing Models for CLINs, 1001, 1003, 1005, 2003, 2006, 2008, 3003, 3006 & 3008: The offeror shall provide a Cost Element Summary for each CLIN. The Cost Element Summary must show at least the following information, as applicable: labor hours and cost for direct labor, indirect labor, materials, other direct costs (identify components making up other direct costs), cost of money, and profit/fee. The format should be base times rates equals dollars, by company accounting year, consistent with the offeror’s rate structure. Company accounting year is the 12-month period in which the company’s rates are defined (e.g., Oct-Sep, Jul-Jun, or Jan-Dec). The offeror shall define the time period for the company’s accounting year. Provide adequate explanation for each proposed cost element. The base upon which the rate is applied should be clearly traceable and explained. Submit the Cost Element Summaries, in MS Excel, with working formulas. Printed copies shall be submitted as an Attachment to the Cost/Price Volume. Each CLIN will on a separate worksheet in the Excel file. Below is a sample:

<table>
<thead>
<tr>
<th>CLIN: XXXX</th>
<th>Labor Hour</th>
<th>Year</th>
<th>Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prime Hours</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interdivisional</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subcontractor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total of All Hours</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CLIN: XXXX</th>
<th>Year 2016</th>
<th>Year 2017</th>
<th>Year 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost Elements</td>
<td>Base</td>
<td>Rates</td>
<td>Dollars</td>
</tr>
<tr>
<td>Prime Labor Hours</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM</td>
<td>100</td>
<td>$80.00</td>
<td>$8,000</td>
</tr>
<tr>
<td>Eng 1</td>
<td>100</td>
<td>$70.00</td>
<td>$7,000</td>
</tr>
<tr>
<td>Eng 2</td>
<td>100</td>
<td>$60.00</td>
<td>$6,000</td>
</tr>
<tr>
<td>Eng 3</td>
<td>100</td>
<td>$50.00</td>
<td>$5,000</td>
</tr>
<tr>
<td>Admin 1</td>
<td>100</td>
<td>$40.00</td>
<td>$4,000</td>
</tr>
<tr>
<td>Admin 2</td>
<td>100</td>
<td>$30.00</td>
<td>$3,000</td>
</tr>
<tr>
<td>Admin 3</td>
<td>100</td>
<td>$20.00</td>
<td>$2,000</td>
</tr>
<tr>
<td>Total Hours</td>
<td>700</td>
<td>$50.00</td>
<td>$35,000</td>
</tr>
<tr>
<td>Fringe</td>
<td>$35,000</td>
<td>40.00%</td>
<td>$14,000</td>
</tr>
<tr>
<td>Overhead</td>
<td>$35,000</td>
<td>80.00%</td>
<td>$28,000</td>
</tr>
</tbody>
</table>

6.4.1 Mapping of Technical Proposal to Bases of Estimates. The Offeror shall provide a mapping of the concepts proposed in the Technical Proposal to the Bases of Estimates. The Offeror shall link the proposed technical concept for each technical subfactor to the CLIN-WBS-tasks as shown in the table below.

Provide the table as Attachment 2 to the Cost/Price volume.

<table>
<thead>
<tr>
<th>Technical Subfactor</th>
<th>Approach</th>
<th>CLIN</th>
<th>WBS</th>
<th>Tasks</th>
<th>Hours</th>
<th>Materials $</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Zebra Design Effort</td>
<td>0001</td>
<td>1.5.1, 1.2.2</td>
<td>1, 2, 3, 6, 10</td>
<td>20,000</td>
<td>n/a</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6.4.2 WBS Summaries for CLINs, 1001, 1003, 1005, 2003, 2006, 2008, 3003, 3005 & 3008. The offeror shall provide a summary of the hours and dollars by WBS (to Level 3) by Government Fiscal Year.

Below is a sample table:

<table>
<thead>
<tr>
<th>CLIN XXXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBS</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>1.2.3</td>
</tr>
</tbody>
</table>
6.4.3 Labor Hours Discussion by CLIN, 1001, 1003, 1005, 2003, 2006, 2008, 3003, 3006 & 3008. Explain the labor hours proposed for the prime in this section. Labor hours for the subcontracts shall be discussed in the subcontract section.

The offeror shall provide Bases of Estimates (BOEs) by Government-provided Work Breakdown Structure (WBS) (see Attachment x to the model contract). Please ensure the hours in the Basis of Estimates (BOEs) are fully and clearly traceable to the hours in the cost element summaries, and provide visibility in how the basis for these cost elements was developed. The BOEs shall clearly identify the types, quantities and skill mix of labor hours proposed as well as detail the rationale and justification for the estimates used. The labor hours must be separated out by the different types of labor, CLINs, and time-phased by offeror’s Accounting Year. From the information requested, the Government should be able to replicate the calculation of all the proposed hours and dollars. All the calculations shall be easily identifiable. A sample is shown below:

<table>
<thead>
<tr>
<th>CLIN 0001</th>
<th>1.1.3</th>
<th>WBS Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2.1</td>
<td>WBS Title</td>
<td></td>
</tr>
<tr>
<td>1.2.2</td>
<td>WBS Title</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WBS 1.1.3</th>
<th>WBS Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOE Period of Performance</td>
<td>August 2016 – Dec 2018</td>
</tr>
<tr>
<td>BOE Title</td>
<td>Systems Engineering</td>
</tr>
<tr>
<td>BOE Total Hours</td>
<td>30,810</td>
</tr>
</tbody>
</table>

6.4.3.1 Proposed BOE Scope. This BOE provides the following work scope.

6.4.3.2 Basis for the Proposed BOE. The proposed BOE hours are based on similar tasks performed for xyz program. The hours incurred for xyz program were xx, segregated by major tasks as detailed below.

6.4.3.3 Proposed BOE Period of Performance. The proposed period of performance, month-year to month-year, for xx months to complete xyz tasks, and xyz months to complete xyz tasks.

6.4.3.4 Proposed Skill Mix.

Below is an example of the proposed skill mix:

<table>
<thead>
<tr>
<th>Task</th>
<th>Skill Mix Category</th>
<th>CY17</th>
<th>CY18</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ENG1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENG2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>QS1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
6.4.3.5 Proposed Task Descriptions

<table>
<thead>
<tr>
<th>Task Number</th>
<th>Task Title/Description</th>
<th>Task Hours</th>
<th>Technical Concept Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Xx</td>
<td>400</td>
<td>Tech Volume, Page x, Paragraph y</td>
</tr>
<tr>
<td>2</td>
<td>Xx</td>
<td>400</td>
<td>n/a</td>
</tr>
<tr>
<td>x</td>
<td>x</td>
<td>x</td>
<td>n/a</td>
</tr>
<tr>
<td>10</td>
<td>Xx</td>
<td>400</td>
<td>Na.</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>5,000</td>
<td></td>
</tr>
</tbody>
</table>

Technical Concept Cross-Reference: Link the tasks to the technical concept that is proposed in the technical volume. If a specific technical concept is not required by the task, enter “n/a”.

6.4.3.5 Rationale for Proposed Task Estimates.

<table>
<thead>
<tr>
<th>Task Number</th>
<th>Task Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Task Description</strong>: Include a detailed description of all the tasks along with any assumptions used in the BOE (e.g. length of time required to perform the task). <strong>Labor Hour Estimating Rationale</strong>: Include the methodology used for estimating the number of labor hours proposed for each task. Show the calculation of the hours.</td>
</tr>
<tr>
<td>2</td>
<td>x</td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

6.4.3.6 Labor Hour Estimating Rationale: The proposal shall show the data (and sources) that serve as the foundation for the labor estimate, the analyses, and the calculations that resulted in the proposed labor hour estimate.

Historical Experience: If the source of data is analogous programs, the offeror shall explain why the programs are relevant. The offeror shall explain the past experience, explain how the past experience relates to the current effort, including similarities and differences, and show the calculation of prior cost data as adapted to the current effort. All calculations need to be clear, error-free, and contain the logic trail. If factors are used in estimating the hours, the offeror shall explain the independent variable, dependent variables, and the historical data that demonstrate the existence and accuracy of the relationship. The offeror shall explain the steps and the mathematical calculations that resulted in the proposed estimating factor.

Learning Curve Estimate: If learning is applicable, the offeror shall include information on learning/improvement curve applications, identify the specific area subject to learning, the curve theory type (unit or cumulative) and the slope of the
curve as a percent, including the rationale for the percent chosen. Also, the offeror shall identify the data used to develop the first unit cost and slope and explain how this data related to the current effort and how entry on the learning curve was attained (i.e. how the first unit cost was derived). The offeror shall show the calculations.

Software Hours (all references to software include firmware): If the proposed hours are for software, the offeror provide a brief description of the software item and its function. The offeror shall identify the estimated total software lines of code (SLOC) and Effective SLOC (ESLOC). The offeror shall identify method and provide calculations for calculating ESLOC from Delivered software lines of code (DSLOC) and why its proposed sizing is correct. The offeror shall identify new code, pre-existing (modified) code, pre-existing (unmodified) code, and its origins and identify redesign, retest, and reimplementation percentages and the rationale on why these percentages were chosen. The Offeror shall provide the productivity rate historical experience on lines of code and hours per lines of code – name the program and explain the relevancy of the historical data. The offeror shall explain and show the calculations that result in the proposed lines of code and hours per lines of code. State software code growth assumption and provide historical data that supports the growth assumption. Also provide the data showing the comparison of the growth within the company and as compared to industry standards. If a model was used to calculate the software, provide the model with working formulas in Microsoft Excel, and explain the inputs, rationale for the inputs, calculations, and results.

Risk-Burn Down Tasks: For the tasks that incorporate the risk-burn down approach, the offeror shall explain the hours and schedule planned for the risk-burn down tasks.

Discussion: In all cases, include a discussion of the proposed labor-skill mix and time phasing of the effort over the period of performance.

6.4.4 All rates (Direct and Indirect Rates for, 1001, 1003, 1005, 2003, 2006, 2008, 3003, 3006 & 3008. FPRAs: The offeror is expected to use the Forward Pricing Rate Agreements (FPRAs), if available. If FPRAs are used, the offeror shall submit the FPRAs as part of the proposal.

FPRRs: If there is no FPRA, and Forward Pricing Rate Recommendations (FPRRs) are available for use by the offeror, the proposal costs may use the FPRRs, and if the FPRRs are used, the offeror shall submit the FPRRs. No FPRA or FPRR: If neither the FPRA nor FPRR is used to price the offeror’s proposal, the offeror shall use rates that the company believes it will incur in the performance of the contract. The offeror shall submit the substantiating data that went into the formulation of the rates. An example of substantiating data includes actual costs for the most recent 5 years and the calculations that were used to derive the rates for pricing the proposal.

Bureau of Labor Statistics (BLS) Rates: If the offeror is using the BLS rates for the proposal, provide the SOC code for each labor category.

6.4.5 Cost Estimating Relationships (CERs): If the offeror uses CERs, the offeror shall explain the independent variable, dependent variables, and the historical data that demonstrate the existence and accuracy of the relationship. The offeror shall explain the steps and the mathematical calculations that resulted in the proposed CER.
6.4.6 Travel by CLIN 0003. If travel costs are being proposed, the offeror shall identify need for, location, and duration of proposed travel as well as the number of trips and personnel by labor category.

6.4.7 Other Direct Costs by CLIN, 1001, 1003, 1005, 2003, 2006, 2008, 3003, 3006 & 3008. If Other Direct Costs are proposed, the offeror shall provide a table with each ODC item, explain the ODC item, need, basis for the estimate, estimating rationale, and calculations resulting in the proposed amount.

6.4.8 Subcontractors/Interdivisionals/Associate Organizations. In the prime offeror section, the offeror shall complete the following table.

<table>
<thead>
<tr>
<th>Subcontract/Interdivisional/Associate Organization – Pricing Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Non-Prime Company Name</strong></td>
</tr>
<tr>
<td>----------------------------</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

The offeror shall provide information on each subcontractor/interdivisional/associate organization as a separate section.

For non-prime companies where the proposed total price (0001, 1001, 1003, 1005, 2001, 2003, 2006, 2008, 3001, 3003, 3006 & 3008) of the company is at least 20% of the total proposed price for effort, the non-prime company shall be directed by the prime to submit a price volume directly to the Government. The same pricing instructions apply to these non-prime companies.

The prime offeror shall submit to the Government its written analysis of all non-prime proposals. Evaluation of subcontract proposals shall include direct labor hours and costs/prices that will flow up the prime to the Government.

6.4.9 Company-Unique Cost Reduction Situation – Submittal Requirements. The Government does not encourage or require an offeror to reduce its estimated costs to supplement DoD appropriations by bearing a portion of defense contract costs.

6.4.9.1 Company Management Reductions: If estimated costs required to perform the proposed effort have been decreased due to a management decision, the offeror shall explain the decision and provide a summary of the reduction by major cost element. The offeror shall also provide the source of funds that will fund the effort, and the contractual mechanics that will be put into place to ensure that the reduced costs will not become allowable in this resulting contract.

6.4.9.2 Commonality with Other Programs: If the estimated costs required to perform the proposed effort have been decreased due to a commonality to other programs, the offeror shall explain the common areas and provide a summary of the reduction by major cost element. The offeror shall clearly explain what costs go to which program
and the internal accounting controls that are in place to ensure proper charging of costs.

6.4.10 Offeror’s Business Systems. The proposal shall indicate whether the offeror has Government approval of the following systems: Accounting System, Estimating System, and Purchasing System. Note that “a cost-reimbursement contract may be used only when the contractor’s accounting system is adequate for determining costs applicable to the contract or order.” (Reference 16.301-3(a)(3)).

6.4.10.1 Companies with Approved Business Systems: If these systems have been approved by the Government, please provide evidence of the approvals. Please affirm that the proposal costs and prices are calculated based upon the approved systems.

6.4.10.2 Companies Business System Deficiencies: For each business system listed above that has Government-issued deficiency notifications or has been deemed to be inadequate, the offeror shall explain the cited inadequacy/deficiency, explain the offeror’s proposed corrective action plan, and shall state whether the plan has been accepted by the Government. The offeror shall explain how the risks and impacts to the proposed cost/price have been mitigated by the offeror in the interim as the business system is being corrected.

6.4.10.3 Companies Not Required to Have Government-Approved Business Systems: If the offeror’s systems are not required to be approved by the Government, the offeror shall provide the following information:

Accounting System: the offeror shall explain the offeror’s system or systems for accounting methods, procedures, and controls established to gather, record, classify, analyze, summarize, interpret, and present accurate and timely financial data for reporting in compliance with applicable laws, regulations, and management decisions, and may include subsystems for specific areas such as indirect and other direct costs, compensation, billing, labor, and general information technology. Indicate whether the system has been reviewed by an external agency and provide the results of the external review. (Reference DFARS 252.242-7006).

Estimating System: the offeror shall explain the offeror’s policies, procedures, and practices for budgeting and planning controls, and generating estimates of costs and other data included in proposals submitted to customers in the expectation of receiving contract awards. Estimating system includes the company’s (1) Organizational structure; (2) Established lines of authority, duties, and responsibilities; (3) Internal controls and managerial reviews; (4) Flow of work, coordination, and communication; and (5) Budgeting, planning, estimating methods, techniques, accumulation of historical costs, and other analyses used to generate cost estimates. Indicate whether the system has been reviewed by an external agency and provide the results of the external review. (Reference DFARS 252.215-7002).

Purchasing System: the offeror shall explain the offeror’s system or systems for purchasing and subcontracting, including make-or-buy decisions, the selection of vendors, analysis of quoted prices, negotiation of prices with vendors, placing and administering of orders, and expediting delivery of materials. Indicate whether the
system has been reviewed by an external agency and provide the results of the external review. (Reference DFARS 252.244-7001).

6.5 Government Property in TOTAL EVALUATED PRICE.

If the offeror requires the use of Government Property, the offeror shall complete Table 6.5-1 in Microsoft Excel format using the acquisition cost information from Attachment X and the rental equivalency method described in FAR 52.245-9(e)(2) as laid out below:

In Column (A), identify the requested GP
In Column (B), identify the acquisition cost from Attachment X and list the dollar value
In Column (C), multiply column (B) by 2% (round to the nearest dollar) to determine the monthly acquisition cost of the item and list the dollar value
In Column (D), divide column (C) by 720 to determine the hourly rental rate (round to the nearest cents) and list the dollar value
In Column (E), propose the rental time required (round to the nearest whole hour) and list the value; “rental time” is defined in 52.245-9(a)
In Column (F), multiply column (D) by (E) (round to the nearest dollar) to determine the total rental charge for the requested item and list the dollar value
In Column (G), briefly describe the need for the use of the GP
Add the sum of Rental Charges in Column (F) and add the resulting dollar value to the Total Evaluated Price (TEP)

<table>
<thead>
<tr>
<th>A Item Requested</th>
<th>B Acq Cost ($)</th>
<th>C Monthly Acq Cost (Multiply B *2%) ($)</th>
<th>D Hourly Rental Rate (Divide C by 720) ($)</th>
<th>E Rental Time</th>
<th>F Rental Charge (Multiply D * E) ($)</th>
<th>G Description of Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item A</td>
<td>$100,000</td>
<td>$2,000</td>
<td>$2.78</td>
<td>400</td>
<td>$1,112</td>
<td></td>
</tr>
<tr>
<td>Item B</td>
<td>$77,777</td>
<td>$1,556</td>
<td>$2.16</td>
<td>250</td>
<td>$540</td>
<td></td>
</tr>
</tbody>
</table>

Sum of Rental Charges for All GP Items: (Insert Sum into the Total Evaluated Price) $1,652

6.6 Data Rights Instructions

The Government has determined that its minimum needs for this acquisition include:
Unlimited/Unrestricted Rights to all delivered technical data identified in the table below
Government Purpose Rights to all noncommercial technical data listed in the table below
The special license to review all data used by the Contractor to create any data contained in any CDRL or CLIN
A perpetual license to all commercial technical data and computer software for (a) a sufficient number of licenses for program purposes, (b) that grants the Government unrestricted rights to items described in DFARS 252.227-7015(b)(1), and (c) that is consistent with Federal procurement law (e.g., choice of law provisions, forums that
would adjudicate any disputes, provisions that require the Government to indemnify the licensor)

Rights in Commercial Technical Data, Computer Software, and Computer Software Documentation

<table>
<thead>
<tr>
<th>CDRL No. Or CLIN #</th>
<th>Data Item Title</th>
<th>Vendor Name; Technical Data/Software Application Name; License No.</th>
<th>Rights To be provided with Item</th>
<th>FFP</th>
</tr>
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</table>

6.7 Appendix D Instructions

The Offeror shall complete Appendix D and submit with the Cost/Price Proposal.

7. Volume IV - Contract Documentation

7.1. Model Contract/Representations and Certification

The purpose of this volume is to provide information to the Government for preparing the contact documents and supporting file. The Offeror’s proposal shall include a signed copy of the Model Contract, and Section K.

- Section A – Solicitation/Contract Form - Provide Completion of blocks _____ and signature and date for blocks _____ and _____ of the _______. Signature by the offeror on the _______ constitutes an offer, which the Government may accept. The "original" copy should be clearly marked under separate cover and should be provided without any punched holes.
- Section B - Supplies or Services and Costs/Prices - Completed pricing information in Section B of the model contract.
- Section F - Deliveries or Performance
  **A required delivery schedule would appear in Section F of the solicitation**
- Section I - Contract Clauses

7.2. Section K. Provide RFP Section K.

The Offeror shall complete their certification, representation, and other statements.

7.3. Exceptions to Solicitation Requirements

Offerors are required to meet all solicitation requirements, such as terms and conditions, representations and certifications, and technical requirements, in addition to those identified as evaluation factors or subfactors. Offerors must clearly identify any exception to the solicitation terms and conditions and provide complete accompanying rationale. Each exception shall be specifically related to each paragraph and/or specific
part of the solicitation to which the exception is taken. Provide rationale in support of
the exception and fully explain its impact, if any, on the performance, schedule, cost, and
specific requirements of the solicitation. This information shall be provided in the
format and content of Table 7.2.

<table>
<thead>
<tr>
<th>Solicitation Document</th>
<th>Page/Paragraph</th>
<th>Requirement/Portion</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOO, SOW, SPEC, Model Contract, ITO, etc.</td>
<td>Applicable Page and Paragraph Numbers</td>
<td>Identify the requirement or portion to which exception is taken</td>
<td>Describe why the requirement can/will not be met</td>
</tr>
</tbody>
</table>

7.4. Other information required

7.4.1. Authorized Offeror Personnel. Provide the name, title and telephone number of
the company/division point of contact regarding decisions made with respect to
your proposal and who can obligate your company contractually. Also, identify
those individuals authorized to negotiate with the Government. Also, provide the
name, position, and contact information for the person or persons to be notified of
the award decision by the Source Selection Authority or designated representative.

7.4.2. Government Offices. Provide the mailing address, telephone and fax numbers
and facility codes for the cognizant Administrative officer, DCAA, and the
Government Paying office.

7.4.3. Company/Division Address, Identifying Codes, and Applicable Designations.
Provide company/division’s street address, county and facility code; CAGE code:
DUNS code; size of business (large or small); and labor surplus designation. This
same information must be provided if the work for this contract will be performed
at any other location(s). List all locations where work is to be performed and
indicate whether such facility is a division, affiliate, or subcontractor, and the
percentage of work to be performed at each location.

7.4.4. Potential Organizational Conflict of Interest (OCI). The Offeror shall submit an
OCI Mitigation Plan in compliance with AFFARS 5352.209-9001 ALT I, II, III, &
VI (Oct 2010), AFFARS 5352.209-9001 (OCT 2010) as well as the completed
OCI Mitigation plan Checklist (Appendix XX); the Plan shall address OCI for the
prime contractor and subcontractor LDPE providers.
Section L Appendix A: Sample WBS

The following excerpt from MIL-STD-881C is provided as a sample of a typical SV WBS. It provides sample tasks that reflect the level of detail that is expected at each level of the WBS. Offerors are not required to follow this WBS exactly.

<table>
<thead>
<tr>
<th>WBS #</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
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<td>System Engineering, Integration, Test, Program Management (SEIT/PM)</td>
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<tr>
<td>1.1.1</td>
<td>System Engineering (SE)</td>
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<td>Integrations and Test</td>
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<td>1.2</td>
<td>Launch Vehicle</td>
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<td>1.2.1</td>
<td>SEIT/PM</td>
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<td>Payload Accommodations 1...n (Specify)</td>
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SECTION L Appendix D: Pricing Table

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<td>Proposed Total Price (CLINs 0001, 2001, 2005, 3001, 3005 ) – Fixed Price</td>
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Appendix F is a cross-matrix reference between the RFP Section L, Section M, SOW, and CDRLs.

### SECTION L Appendix F - Cross Matrix Ref

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</tbody>
</table>
Appendix XX: OCI Mitigation Plan Checklist

SPACE AND MISSILE SYSTEMS CENTER
ORGANIZATIONAL CONFLICTS OF INTEREST (OCI)
MITIGATION PLAN CHECKLIST
November 2013

Contractor:
Contract Number: FA8818-17-C-0002

Instructions:

1. If the contractor identifies an actual or potential OCI situation associated with its or any of its teammate’s or subcontractor’s performance under any contract it or any of its teammates or subcontractors has been or may be awarded by any federal agency or other entity, the contractor shall propose an OCI mitigation plan to be included as an attachment in any contract resulting from this solicitation. At a minimum, the plan shall address all of the items in the checklist below.

2. The OCI mitigation plan shall include this completed checklist as an appendix to the plan. The contractor shall enter the page and paragraph numbers from its OCI mitigation plan that correspond to each requirement listed below. If subcontractors or other teammates submit individual OCI mitigation plans, each subcontractor or teammate OCI mitigation plan shall also include a completed checklist. Mark items that are not applicable “N/A.

<table>
<thead>
<tr>
<th></th>
<th>General Considerations</th>
<th>Page/Para</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>A clear statement of corporate commitment to continuously identify and avoid or mitigate OCI situations for this acquisition signed by senior corporate official (Vice President or above).</td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>Corporate commitment to certify annual compliance with OCI Plan.</td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>Description of the position of the business unit performing this contract effort within the overall corporate structure.</td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>Organizational charts for the parent organization and the performing business unit (e.g., division, sector, subsidiary, and affiliate).</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>Letters of commitment to the prime contractor’s OCI Plan from all teammates and subcontractors or individual OCI Plans from all teammates and subcontractors attached to prime contractor’s OCI Plan.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Definitions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Definition of all terms used in the OCI Plan.</td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>Definitions of all acronyms used in the OCI Plan.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Management of OCI Plan</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Identification of individual responsible for oversight and administration of the OCI Plan by position and place in company/business unit organizational structure.</td>
<td></td>
</tr>
<tr>
<td>3.2</td>
<td>Identification of individual responsible for maintaining documentation related to OCI Plan by position and place in company/business unit organizational structure.</td>
<td></td>
</tr>
</tbody>
</table>
### 3.3 Location where OCI Plan documentation will be maintained and commitment that the location will be easily accessible by Contracting Officer or Government auditor.

<table>
<thead>
<tr>
<th>3.4</th>
<th>Identification of corporate OCI-related policies and procedures (policies and procedures shall be attached to the OCI Plan).</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5</td>
<td>Description of processes and procedures implemented to execute the OCI Plan.</td>
</tr>
<tr>
<td>3.6</td>
<td>Commitment to flow OCI Plan requirements down to all teammates and subcontractors. Only those teammates and subcontractors who have committed to the Contractor’s OCI Plan in writing or provided an OCI Plan of their own shall be allowed to commence work on this contract.</td>
</tr>
<tr>
<td>3.7</td>
<td>Description of process for advance notification to Contracting Officer of addition, deletion, or changes to subcontractors and teammates. Notification shall include sufficient information for the Contracting Officer to determine whether or not the OCI situation has changed. Notification shall also include any proposed changes to the OCI Plan.</td>
</tr>
<tr>
<td>3.8</td>
<td>Description of process for timely notification to Contracting Officer of newly identified OCI situations, OCI Plan violations, or appearance of violation. Notification shall include a description of the violation or appearance of violation and the actions taken or proposed to be taken to mitigate or avoid repetition of the violation. After conducting further inquiries and discussions as may be necessary, the Contracting Officer and the contractor shall agree on appropriate corrective action, if any.</td>
</tr>
</tbody>
</table>

### 4 OCI Training

| 4.1 | Plan for OCI training of all personnel working on the program. |
| 4.2 | Identification of persons or classes of persons working on the program not subject to OCI training, including rationale and description of alternate OCI mitigation techniques. |
| 4.3 | Statement of frequency of training (not less than annually). |
| 4.4 | Description of how training completion is documented and where training documentation is maintained. |
| 4.5 | Description of process for determining personal (individual) conflicts of interest. |
| 4.6 | Description of personnel policies to limit employee transfers that might result in the inadvertent flow of sensitive information to other parts of the company where information could be used inappropriately. |
| 4.7 | Statement that requirement is in place for program personnel to execute non-disclosure agreements (NDA) to protect proprietary and other sensitive information. |
| 4.8 | Statement that requirement is in place for debriefing personnel who executed NDAs upon their transfer, reassignment, resignation, or retirement. |
| 4.9 | Statement of the length of time that NDAs require protection of information. |
| 4.10 | Description disciplinary actions for non-compliance with the OCI Plan. |
| 4.11 | Description of how and where disciplinary actions are documented. |

### 5 OCI Plan Reviews
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<th>Section</th>
<th>Description</th>
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<tr>
<td>5.1</td>
<td>Description of how OCI processes and procedures are overseen and audited by the corporate organization.</td>
</tr>
<tr>
<td>5.2</td>
<td>Statement of the frequency of corporate audits.</td>
</tr>
<tr>
<td>5.3</td>
<td>Commitment to annual certification by a senior corporate official (Vice President or above) of compliance with the terms of the OCI Plan.</td>
</tr>
<tr>
<td>5.4</td>
<td>Description of location where certification documentation is maintained.</td>
</tr>
<tr>
<td>6</td>
<td>Description of OCI Situation</td>
</tr>
<tr>
<td>6.1</td>
<td>Description of actual and potential OCI situations for prime contractor, subcontractors, or teammates, including classification of OCI situations as biased ground rules, impaired objectivity or unequal access to non-public information. Description identifies applicable contract numbers and customers.</td>
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<tr>
<td>6.2</td>
<td>Explanation of factors that place the prime contractor, subcontractors, or teammates in an OCI situation.</td>
</tr>
<tr>
<td>7</td>
<td>OCI Mitigation</td>
</tr>
<tr>
<td>7.1</td>
<td>Description of avoidance or mitigation technique(s) proposed for each identified OCI situation in sufficient detail to evaluate efficacy of proposed technique.</td>
</tr>
<tr>
<td>7.2</td>
<td>Identification of individuals (by position and place in company/business unit organizational structure) responsible for executing proposed technique(s).</td>
</tr>
<tr>
<td>7.3</td>
<td>If OCI situation is one of biased ground rules or impaired objectivity, avoidance or mitigation techniques shall involve more than firewalls.</td>
</tr>
</tbody>
</table>
Section M

“Information to Offerors and Instructions for Proposal Preparation - Evaluation Criteria”

December 2016
<table>
<thead>
<tr>
<th>REVISION</th>
<th>DATE</th>
<th>SECTION AFFECTED</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC</td>
<td>07 Dec 2016</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**REVISION HISTORY**
<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Basis for Contract Award</td>
<td>5</td>
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<td>2. Solicitation Requirements, Terms and Conditions</td>
<td>5</td>
</tr>
<tr>
<td>3. Evaluation Factors and Subfactors</td>
<td>6</td>
</tr>
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<td>5. Volume II – Small Business</td>
<td>10</td>
</tr>
<tr>
<td>6. Volume III – Price/Cost</td>
<td>10</td>
</tr>
</tbody>
</table>
1. **Basis for Contract Award**

This is a tradeoff source selection conducted in accordance with Federal Acquisition Regulation (FAR) 15.3, Source Selection, as supplemented by the Defense Federal Acquisition Regulation Supplement (DFARS), and the Air Force Federal Acquisition Regulation Supplement (AFFARS). These regulations are available electronically at the Air Force (AF) FARSite, http://farsite.hill.af.mil. The Government will select the best overall offer, based upon an integrated assessment of Technical/Technical Risk, Small Business, and Cost/Price. A contract may be awarded to the Offeror who is deemed responsible in accordance with the FAR, as supplemented, whose proposal conforms to the solicitation's requirements (to include all stated terms, conditions, representations, certifications, and all other information required by this solicitation) and is judged, based on the evaluation factors and subfactors, to represent the best value to the Government. This may result in an award to a higher rated, higher priced Offeror, where the decision is consistent with the evaluation factors, and the Source Selection Authority (SSA) reasonably determines that the technical approach of the higher price Offeror outweighs the cost difference. While the Government source selection evaluation team and the SSA will strive for maximum objectivity, the source selection process, by its nature, is subjective; and therefore, professional judgment is implicit throughout the entire process.

1.1. **Number of Contracts to be Awarded**

The Government intends to award one contract for LDPE. However, the Government reserves the right to not award a contract.

1.2. **Discussions**

The Government intends to award a contract without holding discussions (reference FAR 15.306(d)). If, during the evaluation period, it is determined to be in the best interest of the Government to hold discussions, Offeror responses to the Final Proposal Revision (FPR) request will be considered in making the source selection decision. However, such revisions are made at the offeror’s risk because they are subject to evaluation and thus may create a proposal deficiency, increase technical risk by introducing weaknesses or significant weaknesses, or cause some other proposal issue that may render it ineligible for award.

2. **Solicitation Requirements, Terms and Conditions**

Offerors are required to meet all solicitation requirements, such as terms and conditions, small business subcontracting plan, OCI analysis results, other information required, representations and certifications, and technical requirements, in addition to those identified
as factors or subfactors. Failure to comply with the terms and conditions of the solicitation may result in the Offeror being ineligible for award.

3. Evaluation Factors and Subfactors

3.1. Evaluation Factors and Subfactors

Proposal Evaluation – The following evaluation factors and subfactors will be used to evaluate each proposal.

<table>
<thead>
<tr>
<th>Factor</th>
<th>Subfactor</th>
<th>Evaluation</th>
<th>Risk Assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: Technical</td>
<td>A: Design Performance</td>
<td>Table 3-3A</td>
<td>Yes Table 3-3B</td>
</tr>
<tr>
<td></td>
<td>B: Integration Planning</td>
<td>Table 3-3A</td>
<td>Yes Table 3-3B</td>
</tr>
<tr>
<td></td>
<td>C: Schedule</td>
<td>Table 3-3A</td>
<td>Yes Table 3-3B</td>
</tr>
<tr>
<td>2: Small Business</td>
<td>N/A</td>
<td>Table 3-4</td>
<td>No</td>
</tr>
<tr>
<td>3: Cost/Price</td>
<td>N/A</td>
<td>Table 3-5</td>
<td>No</td>
</tr>
</tbody>
</table>

3.2. Relative Importance of Factors and Subfactors

3.2.1. An Offeror that is rated Unacceptable for any Factor or Subfactor (excluding Cost/Price) is ineligible for award.

3.2.2. All evaluation factors other than Cost/Price, when combined, are significantly more important than Cost/Price.

3.2.3. Within Factor 1, Subfactor C (Schedule) is slightly more important than Subfactor A (Design Performance), which is slightly more important than Subfactor B (Integration).

3.3. Technical/Technical Risk Ratings

3.3.1. Each Technical Subfactor will be evaluated utilizing the ratings defined in Tables 3-3A/3-3B. Subfactor ratings will not be combined into overall ratings for the Technical Factor.

<table>
<thead>
<tr>
<th>Color Rating</th>
<th>Adjectival Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Outstanding</td>
<td>Proposal indicates an exceptional approach and understanding of the requirements and contains multiple strengths</td>
</tr>
</tbody>
</table>
For each Technical Subfactor, the Government may assign Strengths or Deficiencies in the offeror’s proposal. Strengths and deficiencies are defined as follows (excerpted from DoD Source Selection Procedures dated 1 April 2016):

(1) A Strength is an aspect of an offeror’s proposal that has merit or exceeds specified performance or capability requirements in a way that will be advantageous to the Government during contract performance.

(2) A Deficiency is a material failure of a proposal to meet a Government requirement or a combination of significant weaknesses in a proposal that increases the risk of unsuccessful contract performance to an unacceptable level.

<table>
<thead>
<tr>
<th>Adjectival Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>Proposal may contain weakness(es) which have little potential to cause disruption of schedule, increased cost or degradation of performance. Normal contractor effort and normal Government monitoring will likely be able to overcome any difficulties.</td>
</tr>
<tr>
<td>Moderate</td>
<td>Proposal contains a significant weakness or combination of weaknesses which may potentially cause disruption of schedule, increased cost or degradation of performance. Special contractor emphasis and close Government monitoring will likely be able to overcome difficulties.</td>
</tr>
<tr>
<td>High</td>
<td>Proposal contains a significant weakness or combination of weaknesses which is likely to cause significant disruption of schedule, increased cost or degradation of performance. Is unlikely to overcome any difficulties, even with special contractor emphasis and close Government monitoring.</td>
</tr>
<tr>
<td>Unacceptable</td>
<td>Proposal contains a material failure or a combination of significant weaknesses that increases the risk of unsuccessful performance to an unacceptable level.</td>
</tr>
</tbody>
</table>

The Technical Risk rating considers the risk associated with the Technical approach in meeting the requirement. Assessment of Technical Risk, which is manifested by the identification of Weaknesses and Significant Weaknesses, considers potential for disruption of schedule, increased cost, degradation of performance, the need for increased Government oversight, or the likelihood of unsuccessful contract performance.
The definitions for Weakness and Significant Weakness are as follows (excerpted from DoD Source Selection Procedures dated 1 Apr 2016):
(1) A Weakness is a flaw in the proposal that increases the risk of unsuccessful contract performance.
(2) A Significant Weakness in the proposal is a flaw that appreciably increases the risk of unsuccessful contract performance.

3.4. Small Business Rating
3.4.1. The Small Business Factor will be evaluated utilizing the ratings defined in Table 3-4.

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceptable</td>
<td>Proposal indicates an adequate approach and understanding of small business objectives.</td>
</tr>
<tr>
<td>Unacceptable</td>
<td>Proposal does not meet small business objectives.</td>
</tr>
</tbody>
</table>

3.5. Cost/Price Ratings
3.5.1. The Cost/Price Factor will be evaluated utilizing the ratings defined in Table 3-5.

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Probable Cost Adjustment</td>
<td>$ ______</td>
</tr>
<tr>
<td>Proposed Total Price (CLINs 0001, 0002, 2001, 2005, 3001, 3005) – Fixed Price</td>
<td>$ ______</td>
</tr>
<tr>
<td>Data Rights</td>
<td>$ ______</td>
</tr>
<tr>
<td><strong>Govt Total Evaluated Price</strong></td>
<td>$ ______</td>
</tr>
<tr>
<td>Reasonable</td>
<td>Yes / No / TBD / NA</td>
</tr>
<tr>
<td>Realism (Applies only to cost-reimburse CLINs 0003, 1001, 1003, 1005, 2003, 2006, 2008, 3003, 3006 &amp; 3008)</td>
<td>Yes / No / TBD / NA</td>
</tr>
<tr>
<td>Presence of Unbalanced Pricing</td>
<td>Yes / No / TBD / NA</td>
</tr>
</tbody>
</table>

The criteria in the Technical Subfactors will be applied to evaluate the capability/quality and risk of the offeror’s proposed approach.

4.1. Subfactor A – Design Performance

This Subfactor rating provides an assessment of the Offeror’s solution for satisfying the Government’s essential performance requirements.

<table>
<thead>
<tr>
<th>Table 4-1, SOW Appendix A: LDPE Essential Performance Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
</tr>
<tr>
<td>1.4.3</td>
</tr>
<tr>
<td>1.10</td>
</tr>
<tr>
<td>2.3</td>
</tr>
<tr>
<td>3.5</td>
</tr>
<tr>
<td>3.8</td>
</tr>
<tr>
<td>3.12</td>
</tr>
</tbody>
</table>

The Government will evaluate the extent to which the offeror’s proposed approach and capability demonstrate the ability to satisfy threshold level performance for requirements identified in Table 4-1, above.

For requirements listed in Table 4-1, above, where the threshold and objective performance levels are not equal, the Government may assign a strength where the offeror’s approach and capability demonstrate the ability to exceed threshold level performance up to objective performance level.

For requirements listed in Table 4-1, above, where the threshold and objective performance levels are equal, the Government will not assign a strength where the offeror’s approach and capability demonstrate the ability to exceed threshold level performance.

4.2. Subfactor B – Integration Planning

The Government will evaluate the extent to which the offeror demonstrates the ability to develop a complete payload integration schedule from notification at L-12 months through payload integration testing.

4.3. Subfactor C – Schedule

The Government will evaluate the extent to which the offeror demonstrates the ability to execute a realistic schedule for on-time delivery of integrated LDPE articles to the Launch Integration Services contractor facility at authority to proceed (ATP) +21 months for the first and second planned launches assuming ATP in Apr 2017 and Apr 2018.
The Government may assign a strength where the offeror’s approach and capability demonstrate schedule float prior to delivery date or task durations with evidence of credibility.

5. Volume II – Small Business

Factor 2, Small Business Participation – The evaluation of this Factor focuses on the Offeror’s performance in the utilization of small business concerns. The requirement will be met when information provided in Volume II demonstrates small business participation of at least 7% of total proposed contract value. Small Businesses proposing as a Prime Contractor are exempt from providing a subcontracting plan for this effort in accordance with FAR 19.702(b) and will be rated “Acceptable” for Factor 2.

6. Volume III – Price/Cost

6.1. General Cost Volume Instructions

6.1.1. Government Cost/Price Evaluation. The offeror’s cost/price proposal will be evaluated for reasonableness, realism, and unbalanced pricing. In the evaluation, the Government may use data, external to the offeror’s proposal, such as, but not limited to, field pricing reports, industry information, Government estimates, same or similar DoD contracts, and commercial data. For all CLIN types, the evaluation of options will not obligate the Government to exercise such options. The Government-calculated TEP will be presented to the Source Selection Authority for the best value trade-off decision.

6.1.2. Total Evaluated Price (TEP). The Government will calculate a TEP as shown below:

<table>
<thead>
<tr>
<th>CLIN (A)</th>
<th>Title (B)</th>
<th>Contract Type (C)</th>
<th>Cost $ (D)</th>
<th>Profit $ or Fee $ (E)</th>
<th>Total CLIN Amount (D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>Space Vehicle Assembly and Integration, and test</td>
<td>FFP</td>
<td>N/A</td>
<td>N/A</td>
<td>Offeror’s FFP</td>
</tr>
<tr>
<td>0002</td>
<td>Data &amp; Reports</td>
<td>FFP</td>
<td>N/A</td>
<td>N/A</td>
<td>Offeror’s FFP</td>
</tr>
<tr>
<td>0003</td>
<td>Travel</td>
<td>COST</td>
<td>NTE $54,000</td>
<td>N/A</td>
<td>Offeror’s Cost</td>
</tr>
<tr>
<td>1001</td>
<td>Payload Integration</td>
<td>CPFF</td>
<td>Government Most Probable Cost</td>
<td>Proposed Fixed Fee (D+E)</td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>1002</th>
<th>Data &amp; Reports</th>
<th>CPFF</th>
<th>Government Most Probable Cost</th>
<th>Proposed Fixed Fee (D+E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1003</td>
<td>Launch Services Support</td>
<td>CPFF</td>
<td>Government Most Probable Cost</td>
<td>Proposed Fixed Fee (D+E)</td>
</tr>
<tr>
<td>1004</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1005</td>
<td>On-Orbit &amp; Anomaly Support, Software Upgrades</td>
<td>CPFF</td>
<td>Government Most Probable Cost</td>
<td>Proposed Fixed Fee (D+E)</td>
</tr>
<tr>
<td>1006</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2001</td>
<td>Space Vehicle Assembly and Integration, and test</td>
<td>FFP</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2002</td>
<td>Data &amp; Reports</td>
<td>FFP</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2003</td>
<td>Payload Integration</td>
<td>CPFF</td>
<td>Government Most Probable Cost</td>
<td>Proposed Fixed Fee (D+E)</td>
</tr>
<tr>
<td>2004</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2005</td>
<td>Long-Lead Parts</td>
<td>CPFF</td>
<td>Government Most Probable Cost</td>
<td>Proposed Fixed Fee (D+E)</td>
</tr>
<tr>
<td>2006</td>
<td>Launch Services Support</td>
<td>CPFF</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2007</td>
<td>Data &amp; Reports</td>
<td>FFP</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2008</td>
<td>On-Orbit &amp; Anomaly Support, Software Upgrades</td>
<td>CPFF</td>
<td>Government Most Probable Cost</td>
<td>Proposed Fixed Fee (D+E)</td>
</tr>
<tr>
<td>2009</td>
<td>Data &amp; Reports</td>
<td>CPFF</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>3001</td>
<td>Space Vehicle Assembly and Integration, and test</td>
<td>FFP</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>3002</td>
<td>Data &amp; Reports</td>
<td>FFP</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>3003</td>
<td>Payload Integration</td>
<td>CPFF</td>
<td>Government Most Probable Cost</td>
<td>Proposed Fixed Fee (D+E)</td>
</tr>
</tbody>
</table>
6.1.3. Evaluation Area Details. The proposal must contain sufficient details for the Government evaluation of the following areas:

6.1.3.1. Reasonableness (Applies to all proposed prices) – The offeror’s proposal will be assessed for reasonableness, where reasonableness is an assessment of whether the price is too high. The cost/price is reasonable, if, in its nature and amount, does not exceed that amount which would be paid by a prudent person in the conduct of competitive business (FAR 31.201-3). In conducting the reasonableness analysis, the Government will use one or more analysis techniques described in, but not limited to, FAR 15.404-1. A determination of unreasonableness will render the proposal un-awardable. In addition, proposals that have been assessed to be technically unacceptable are ineligible for award, and as a result, a reasonableness determination will not be made for technically unacceptable, un-awardable proposals.

6.1.3.2. Realism (Applies to Cost-Reimbursable CLINs 0003, 1001, 1003, 1005, 2003, 2005, 2008, 3003, 3006 & 3008) – The offeror’s proposal will be assessed for realism, where realism is an assessment of whether the price is too low.

The offeror’s proposed costs as provided in the Price Volume will be evaluated via a cost analysis approach. This process involves the Government’s review and evaluation of specific cost elements of the Offeror’s price/cost. Any proposed cost element may be adjusted based upon the Government analysis of each proposed cost element. The cost analysis will consider the offeror’s proposed approach. Cost adjustments will consider weaknesses in the technical proposal that impact the costs. Cost adjustments will also consider missing costs that will likely be incurred for the contract with the proposed solution. Cost adjustments will consider any Offeror-initiated unsubstantiated decrements to historical hours/costs. The cost adjustments will result in the Government’s Most Probable that will become part of the TEP calculation for best value consideration.
No MPC adjustment will be made for deficiencies; however, deficiencies may render your proposal unrealistic.

The offeror’s proposal must be clear and convincing in demonstrating that the costs in the offeror’s proposal are realistic for the work to be performed, reflect a clear understanding for the requirements, and are consistent with various elements of the offeror’s technical proposal (FAR 15.404-1(d)).

Over-proposing of unwanted tasks and associated costs will NOT result in a probable cost adjustment but may result in an unreasonableness determination.

An offer may be rejected if the contracting officer determines that the lack of realism poses an unacceptable risk to the Government.

6.1.3.3. Unbalanced Pricing (Applies to all contract line items) – The offeror’s proposal will be assessed for the presence of unbalanced pricing. Unbalanced pricing exists when, despite an acceptable total evaluated price, the price of one or more contract line items is significantly over or understated as indicated by the application of cost or price analysis techniques. An offer may be rejected if the contracting officer determines that the lack of balance poses an unacceptable risk to the Government.

6.1.3.4. Total Proposed Price (TPP) – The offeror’s proposal will be assessed for accuracy in calculating the proposed Total Proposed Price (TPP) and for compliance with the instructions for calculating the proposed Total Proposed Price.

6.1.3.5. Total Evaluated Price (TEP) – The Government will adjust the proposed TPP to incorporate the Government’s Most Probable cost, and the Government-calculated TEP will be used in the best value decision process.

6.1.3.6. Insufficient Details to support the determination of reasonableness, realism, or non-presence of unbalanced pricing, initially or subsequently, may be a consideration for excluding the offeror’s proposal from the competitive range and further consideration for award. The burden of proof rests with the offeror.

6.2. Data in the solicitation will be compared to the CLIN amounts in the Cost/Price Volume to ensure that the prices in the Price Volume flow to the CLINs in a consistent and accurate manner. Inaccuracy and inconsistency will be assessed as a responsibility issue.
I. NOTICE: The following solicitation provisions pertinent to this section are hereby incorporated by reference:

**FEDERAL ACQUISITION REGULATION SOLICITATION PROVISIONS**

52.204-16 COMMERCIAL AND GOVERNMENT ENTITY CODE REPORTING (JUL 2016)
52.204-17 OWNERSHIP OR CONTROL OF OFFEROR (JUL 2016)
52.222-38 COMPLIANCE WITH VETERANS’ EMPLOYMENT REPORTING REQUIREMENTS (FEB 2016)

II. NOTICE: The following solicitation provisions pertinent to this section are hereby incorporated in full text:

A. FEDERAL ACQUISITION REGULATION SOLICITATION PROVISIONS IN FULL TEXT

52.204-08 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (APR 2016)

(a)

(1) The North American Industry Classification System (NAICS) code for this acquisition is 336414.

(2) The small business size standard is 1,250.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)
(1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7 is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certification in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

[ ] (i) Paragraph (d) applies.

[ ] (ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)

(1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed $150,000.

(iii) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.
(iv) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that-

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(v) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations--Representation.

(vi) 52.209-5, Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

(vii) 52.209-11, Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. This provision applies to all solicitations.

(viii) 52.214-14, Place of Performance--Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.

(ix) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.

(x) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.

(A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.

(B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.
(xi) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.

(xii) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.

(xiii) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.

(xiv) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.

(xv) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

(xvi) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA-designated items.

(xvii) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.

(xviii) 52.225-4, Buy American - Free Trade Agreements - Israeli Trade Act Certificate. (Basic, Alternates I, II and III.) This provision applies to solicitations containing the clause at 52.225-3.

(A) If the acquisition value is less than $25,000, the basic provision applies.

(B) If the acquisition value is $25,000 or more but is less than $50,000, the provision with its Alternate I applies.

(C) If the acquisition value is $50,000 or more but is less than $77,533, the provision with its Alternate II applies.
(D) If the acquisition value is $77,533 or more but is less than $100,000, the provision with its Alternate III applies.

(xix) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xx) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan--Certification. This provision applies to all solicitations

(xxi) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran--Representation and Certification. This provision applies to all solicitations.

(xxii) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions; and

(2) The following representations or certifications are applicable as indicated by the Contracting Officer:

[Contracting Officer check as appropriate.]

X ------(i) 52.204-17, Ownership or Control of Offeror.

X ------ (ii) 52.024-20, Predecessor of Offeror

N/A ------(iii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

N/A ------(iv) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Certification.

N/A ------(v) 52.222-52 Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Certification.
N/A ------(vi) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

N/A ------(vii) 52.227-6, Royalty Information.

N/A ------ (A) Basic.

N/A ------ (B) Alternate I.

X ------(viii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the SAM Web site accessed through https://www.acquisition.gov. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

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Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

52.204-20 PREDECESSOR OF OFFEROR (JUL 2016)

(a) Definitions. As used in this provision--

Commercial and Government Entity (CAGE) code means--
(1) An identifier assigned to entities located in the United States and its outlying areas by the Defense Logistics Agency (DLA) Contractor and Government Entity (CAGE) Branch to identify a commercial or government entity, or

(2) An identifier assigned by a member of the North Atlantic Treaty Organization (NATO) or by the NATO Support and Procurement Agency (NSPA) to entities located outside the United States and its outlying areas that DLA Commercial and Government Entity (CAGE) Branch records and maintains in the CAGE master file. This type of code is known as a NATO CAGE (NCAGE) code.

"Predecessor" means an entity that is replaced by a successor and includes any predecessors of the predecessor.

"Successor" means an entity that has replaced a predecessor by acquiring the assets and carrying out the affairs of the predecessor under a new name (often through acquisition or merger). The term "successor" does not include new offices/divisions of the same company or a company that only changes its name. The extent of the responsibility of the successor for the liabilities of the predecessor may vary, depending on State law and specific circumstances.

(b) The Offeror represents that it [ ] is or [ ] is not a successor to a predecessor that held a Federal contract or grant within the last three years.

(c) If the Offeror has indicated "is" in paragraph (b) of this provision, enter the following information for all predecessors that held a Federal contract or grant within the last three years (if more than one predecessor, list in reverse chronological order):

Predecessor CAGE code: ____________ (or mark "Unknown").

Predecessor legal name: ____________.

(Do not use a "doing business as" name).

52.209-02 PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS -- REPRESENTATION (NOV 2015)

(a) Definitions. "Inverted domestic corporation" and "subsidiary" have the meaning given in the clause of this contract entitled Prohibition on Contracting with Inverted Domestic Corporations (52.209-10).

(b) Government agencies are not permitted to use appropriated (or otherwise made available) funds for contracts with either an inverted domestic corporation, or a subsidiary of an inverted domestic
corporation, unless the exception at 9.108-2(b) applies or the requirement is waived in accordance with the procedures at 9.108-4.

(c) Representation. The offeror represents that—

(1) It [   ] is, [   ] is not an inverted domestic corporation; and

(2) It [   ] is, [   ] is not a subsidiary of an inverted domestic corporation.

52.209-05 CERTIFICATION REGARDING RESPONSIBILITY MATTERS (OCT 2015)

(a)

(1) The Offeror certifies, to the best of its knowledge and belief, that —

(i) The Offeror and/or any of its Principals —

(A) Are [   ] are not [   ] presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(B) Have [   ] have not [   ], within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) contract or subcontract; violation of Federal or State antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating Federal criminal tax laws, or receiving stolen property (if offeror checks “have”, the offeror shall also see 52.209-7, if included in this solicitation); and

(C) Are [   ] are not [   ] presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in paragraph (a)(1)(i)(B) of this provision; and

(D) Have [   ] have not [   ] within a three-year period preceding this offer, been notified of any delinquent Federal taxes in an amount that exceeds $3,500 for which the liability remains unsatisfied.
(1) Federal taxes are considered delinquent if both of the following criteria apply:

   (i) The tax liability is finally determined. The liability is finally determined if it has been assessed. A liability is not finally determined if there is a pending administrative or judicial challenge. In the case of a judicial challenge to the liability, the liability is not finally determined until all judicial appeal rights have been exhausted.

   (ii) The taxpayer is delinquent in making payment. A taxpayer is delinquent if the taxpayer has failed to pay the tax liability when full payment was due and required. A taxpayer is not delinquent in cases where enforced collection action is precluded.

(2) Examples.

   (i) The taxpayer has received a statutory notice of deficiency, under I.R.C. §6212, which entitles the taxpayer to seek Tax Court review of a proposed tax deficiency. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek Tax Court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

   (ii) The IRS has filed a notice of Federal tax lien with respect to an assessed tax liability, and the taxpayer has been issued a notice under I.R.C. §6320 entitling the taxpayer to request a hearing with the IRS Office of Appeals contesting the lien filing, and to further appeal to the Tax Court if the IRS determines to sustain the lien filing. In the course of the hearing, the taxpayer is entitled to contest the underlying tax liability because the taxpayer has had no prior opportunity to contest the liability. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek tax court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

   (iii) The taxpayer has entered into an installment agreement pursuant to I.R.C. §6159. The taxpayer is making timely payments and is in full compliance with the agreement terms. The taxpayer is not delinquent because the taxpayer is not currently required to make full payment.

   (iv) The taxpayer has filed for bankruptcy protection. The taxpayer is not delinquent because enforced collection action is stayed under 11 U.S.C. 362 (the Bankruptcy Code).

   (ii) The Offeror has [ ] has not [ ], within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.
(2) “Principal,” for the purposes of this certification, means an officer; director; owner; partner; or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

This Certification Concerns a Matter Within the Jurisdiction of an Agency of the United States and the Making of a False, Fictitious, or Fraudulent Certification May Render the Maker Subject to Prosecution Under Section 1001, Title 18, United States Code.

(b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

(c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror nonresponsible.

(d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

(e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the Contracting Officer may terminate the contract resulting from this solicitation for default.

52.209-07 INFORMATION REGARDING RESPONSIBILITY MATTERS (JUL 2013)

(a) Definitions. As used in this provision—

“Administrative proceeding” means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (e.g., Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceeding at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

“Federal contracts and grants with total value greater than $10,000,000” means—
(1) The total value of all current, active contracts and grants, including all priced options; and

(2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).

"Principal" means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

(b) The offeror [ ] has [ ] does not have current active Federal contracts and grants with total value greater than $10,000,000.

(c) If the offeror checked "has" in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information System (FAPIIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:

(1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State level that resulted in any of the following dispositions:

   (i) In a criminal proceeding, a conviction.

   (ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of $5,000 or more.

   (iii) In an administrative proceeding, a finding of fault and liability that results in—

      (A) The payment of a monetary fine or penalty of $5,000 or more; or

      (B) The payment of a reimbursement, restitution, or damages in excess of $100,000.
(iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.

(2) If the offeror has been involved in the last five years in any of the occurrences listed in (c)(1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.

(d) The offeror shall post the information in paragraphs (c)(1)(i) through (c)(1)(iv) of this provision in FAPIIS as required through maintaining an active registration in the System for Award Management database via https://www.acquisition.gov (see 52.204-7).

52.209-11 REPRESENTATION BY CORPORATIONS REGARDING DELINQUENT TAX LIABILITY OR FELONY CONVICTION UNDER ANY FEDERAL LAW (FEB 2016)

(a) As required by sections 744 and 745 of Division E of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L 113-235), and similar provisions, if contained in subsequent appropriations acts, the Government will not enter into a contract with any corporation that--

(1) Has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless an agency has considered suspension or debarment of the corporation and made a determination that suspension or debarment is not necessary to protect the interests of the Government; or

(2) Was convicted of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless an agency has considered suspension or debarment of the corporation and made a determination that this action is not necessary to protect the interests of the Government.

(b) The Offeror represents that—

(1) It is [ ] is not [ ] a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability; and
(2) It is [ ] is not [ ] a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

B. DEFENSE FAR SUPP SOLICITATION PROVISIONS IN FULL TEXT

252.203-7005 REPRESENTATION RELATING TO COMPENSATION OF FORMER DOD OFFICIALS
(NOV 2011)

(a) Definition. “Covered DoD official” is defined in the clause at 252.203-7000, Requirements Relating to Compensation of Former DoD Officials.

(b) By submission of this offer, the offeror represents, to the best of its knowledge and belief, that all covered DoD officials employed by or otherwise receiving compensation from the offeror, and who are expected to undertake activities on behalf of the offeror for any resulting contract, are presently in compliance with all post-employment restrictions covered by 18 U.S.C. 207, 41 U.S.C. 2101-2107, and 5 CFR parts 2637 and 2641, including Federal Acquisition Regulation 3.104-2.

252.204-7007 ALTERNATE A, ANNUAL REPRESENTATIONS AND CERTIFICATIONS (JAN 2015)

Substitute the following paragraphs (d) and (e) for paragraph (d) of the provision at FAR 52.204-8:

(d)(1) The following representations or certifications in the System for Award Management (SAM) database are applicable to this solicitation as indicated:

(i) 252.209-7003, Reserve Officer Training Corps and Military Recruiting on Campus—Representation. Applies to all solicitations with institutions of higher education.

(ii) 252.216-7008, Economic Price Adjustment—Wage Rates or Material Prices Controlled by a Foreign Government. Applies to solicitations for fixed-price supply and service contracts when the contract is to be performed wholly or in part in a foreign country, and a foreign government controls wage rates or material prices and may during contract performance impose a mandatory change in wages or prices of materials.

(iii) 252.222-7007, Representation Regarding Combating Trafficking in Persons, as prescribed in 222.1771. Applies to solicitations with a value expected to exceed the simplified acquisition threshold.
(iv) 252.225-7042, Authorization to Perform. Applies to all solicitations when performance will be wholly or in part in a foreign country.

(v) 252.225-7049, Prohibition on Acquisition of Commercial Satellite Services from Certain Foreign Entities—Representations. Applies to solicitations for the acquisition of commercial satellite services.

(vi) 252.225-7050, Disclosure of Ownership or Control by the Government of a Country that is a State Sponsor of Terrorism. Applies to all solicitations expected to result in contracts of $150,000 or more.

(vii) 252.229-7012, Tax Exemptions (Italy)—Representation. Applies to solicitations and contracts when contract performance will be in Italy.

(viii) 252.229-7013, Tax Exemptions (Spain)—Representation. Applies to solicitations and contracts when contract performance will be in Spain.

(ix) 252.247-7022, Representation of Extent of Transportation by Sea. Applies to all solicitations except those for direct purchase of ocean transportation services or those with an anticipated value at or below the simplified acquisition threshold.

(2) The following representations or certifications in SAM are applicable to this solicitation as indicated by the Contracting Officer (Contracting Officer check as appropriate.]

N/A ---- (i) 252.209-7002, Disclosure of Ownership or Control by a Foreign Government.

N/A ---- (ii) 252.225-7000, Buy American---Balance of Payments Program Certificate.

N/A ---- (iii) 252.225-7020, Trade Agreements Certificate.

N/A ---- Use with Alternate I.

N/A ---- (v) 252.225-7031, Secondary Arab Boycott of Israel.
(e) The offeror has completed the annual representations and certifications electronically via the SAM website at https://www.acquisition.gov/. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in FAR 52.204-8(c) and paragraph (d) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer, and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by provision number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

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<td>252.209-7002</td>
<td>DISCLOSURE OF OWNERSHIP OR CONTROL BY A FOREIGN GOVERNMENT (JUN 2010)</td>
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(a) Definitions. As used in this provision--

(1) “Effectively owned or controlled” means that a foreign government or any entity controlled by a foreign government has the power, either directly or indirectly, whether exercised or
exercisable, to control the election, appointment, or tenure of the Offeror's officers or a majority of the Offeror's board of directors by any means, e.g., ownership, contract, or operation of law (or equivalent power for unincorporated organizations).

(2) "Entity controlled by a foreign government"--

(i) Means--

(A) Any domestic or foreign organization or corporation that is effectively owned or controlled by a foreign government; or

(B) Any individual acting on behalf of a foreign government.

(ii) Does not include an organization or corporation that is owned, but is not controlled, either directly or indirectly, by a foreign government if the ownership of that organization or corporation by that foreign government was effective before October 23, 1992.

(3) "Foreign government" includes the state and the government of any country (other than the United States and its outlying areas) as well as any political subdivision, agency, or instrumentality thereof.

(4) "Proscribed information" means--

(i) Top Secret information;

(ii) Communications Security (COMSEC) material, excluding controlled cryptographic items when unkeyed or utilized with unclassified keys;

(iii) Restricted Data as defined in the U.S. Atomic Energy Act of 1954, as amended;

(iv) Special Access Program (SAP) information; or

(v) Sensitive Compartmented Information (SCI).
(b) Prohibition on award. No contract under a national security program may be awarded to an entity controlled by a foreign government if that entity requires access to proscribed information to perform the contract, unless the Secretary of Defense or a designee has waived application of 10 U.S.C. 2536(a).

(c) Disclosure. The Offeror shall disclose any interest a foreign government has in the Offeror when that interest constitutes control by a foreign government as defined in this provision. If the Offeror is a subsidiary, it shall also disclose any reportable interest a foreign government has in any entity that owns or controls the subsidiary, including reportable interest concerning the Offeror’s immediate parent, intermediate parents, and the ultimate parent. Use separate paper as needed, and provide the information in the following format:

Offeror’s Point of Contact for Questions about Disclosure
(Name and Phone Number with Country Code, City Code
and Area Code, as applicable)

Name and Address of Offeror

Name and Address of Entity Description of Interest,
Controlled by a Foreign Ownership Percentage, and
Government Identification of Foreign

252.225-7018 PHOTOVOLTAIC DEVICES - CERTIFICATE (JAN 2016)

(a) Definitions. “Bahrainian photovoltaic device,” “Canadian photovoltaic device,” “Caribbean Basin photovoltaic device,” “designated country,” “designated country photovoltaic device,” “domestic photovoltaic device,” “foreign photovoltaic device,” “Free Trade Agreement country,” “Free Trade Agreement photovoltaic device,” “Korean photovoltaic device,” “least developed country photovoltaic device,” “Moroccan photovoltaic device,” “Panamanian photovoltaic device,” “Peruvian photovoltaic device,” “photovoltaic device,” “qualifying country,” “qualifying country photovoltaic device,” “United States,” “U.S.-made photovoltaic device,” and “WTO GPA country photovoltaic device” have the meanings given in the Photovoltaic Devices clause of this solicitation.

(b) Restrictions. The following restrictions apply, depending on the estimated aggregate value of photovoltaic devices to be utilized under a resultant contract:

(1) If less than $191,000, then the Government will not accept an offer specifying the use of—
(i) Other foreign photovoltaic devices in paragraph (d)(2)(iii), (d)(3)(iii), (d)(4)(iii), or (d)(5)(iii) of this provision, unless the offeror documents to the satisfaction of the Contracting Officer that the price of the foreign photovoltaic device plus 50 percent is less than the price of a comparable domestic photovoltaic device and the Government determines in accordance with DFARS 225.7017-4(b) that the price of a comparable domestic photovoltaic device would be unreasonable; and

(ii) A qualifying country photovoltaic device unless the Government determines in accordance with DFARS 225.7017-4(a) that it is in the public interest to allow use of a qualifying country photovoltaic device.

(2) If $191,000 or more, then the Government will consider only offers that utilize photovoltaic devices that are domestic, qualifying country, or designated country photovoltaic devices, unless the Government determines in accordance with DFARS 225.7017-4(a) that it is in the public interest to allow use of a qualifying country photovoltaic device from Egypt or Turkey, or a U.S.-made photovoltaic device.

(c) Country in which a designated country photovoltaic device was wholly manufactured or was substantially transformed. If the estimated value of the photovoltaic devices to be utilized under a resultant contract exceeds $25,000, the Offeror’s certification that such photovoltaic device (e.g., solar panel) is a designated country photovoltaic device shall be consistent with country of origin determinations by the U.S. Customs and Border Protection with regard to importation of the same or similar photovoltaic devices into the United States. If the Offeror is uncertain as to what the country of origin would be determined to be by the U.S. Customs and Border Protection, the Offeror shall request a determination from U.S. Customs and Border Protection. (See <http://www.cbp.gov/trade/rulings>.)

(d) Certification and identification of country of origin.

[The offeror shall check the block and fill in the blank for one of the following paragraphs, based on the estimated value and the country of origin of photovoltaic devices to be utilized in performance of the contract:]

___ (1) No photovoltaic devices will be utilized in performance of the contract.

___ (2) If less than $25,000—

   ___ (i) The offeror certifies that each photovoltaic device to be utilized in performance of the contract is a domestic photovoltaic device;

   ___ (ii) The offeror certifies that each photovoltaic device to be utilized in performance of the contract is a qualifying country photovoltaic device [Offeror to specify country of origin____________]; or
(iii) The foreign (other than qualifying country) photovoltaic devices to be utilized in performance of the contract are the product of _______________. [Offeror to specify country of origin, if known, and provide documentation that the cost of a domestic photovoltaic device would be unreasonable in comparison to the cost of the proposed foreign photovoltaic device, i.e. that the price of the foreign photovoltaic device plus 50 percent is less than the price of a comparable domestic photovoltaic device.]

3) If $25,000 or more but less than $77,533—

(i) The offeror certifies that each photovoltaic device to be utilized in performance of the contract is a domestic photovoltaic device or a Canadian photovoltaic device [Offeror to specify country of origin___________________________];

(ii) The offeror certifies that each photovoltaic device to be utilized in performance of the contract is a qualifying country photovoltaic device [Offeror to specify country of origin______________]; or

(iii) The foreign (other than qualifying country or Canadian) photovoltaic devices to be utilized in performance of the contract are the product of _______________. [Offeror to specify country of origin, if known, and provide documentation that the cost of a domestic photovoltaic device would be unreasonable in comparison to the cost of the proposed foreign photovoltaic device, i.e. that the price of the foreign photovoltaic device plus 50 percent is less than the price of a comparable domestic photovoltaic device.]

(4) If $77,533 or more but less than $100,000—

(i) The offeror certifies that each photovoltaic device to be utilized in performance of the contract is a domestic photovoltaic device or a Free Trade Agreement country photovoltaic device (other than a Bahrainian, Korean, Moroccan, Panamanian, or Peruvian photovoltaic device) [Offeror to specify country of origin_______];

(ii) The offeror certifies that each photovoltaic device to be utilized in performance of the contract is a qualifying country photovoltaic device (except an Australian or Canadian photovoltaic device, to be listed in paragraph (d)(4)(i) of this provision as a Free Trade Agreement country photovoltaic device) [Offeror to specify country of origin______________]; or

(iii) The offered foreign photovoltaic devices (other than those from countries listed in paragraph (d)(4)(i) or (d)(4)(ii) of this provision) are the product of _______________. [Offeror to specify country of origin, if known, and provide documentation that the cost of a domestic photovoltaic device would be unreasonable in comparison to the cost of the proposed foreign photovoltaic device, i.e. that the price of the foreign photovoltaic device plus 50 percent is less than the price of a comparable domestic photovoltaic device.]

(5) If $100,000 or more but less than $191,000—

(i) The offeror certifies that each photovoltaic device to be utilized in performance of the contract is a domestic photovoltaic device or a Free Trade Agreement country photovoltaic device (other than a Bahrainian, Moroccan, Panamanian, or Peruvian photovoltaic device) [Offeror to specify country of origin_______];
(ii) The offeror certifies that each photovoltaic device to be utilized in performance of the contract is a qualifying country photovoltaic device (except an Australian or Canadian photovoltaic device, to be listed in paragraph (d)(5)(i) of this provision as a Free Trade Agreement country photovoltaic device) [Offeror to specify country of origin____________]; or

(iii) The offered foreign photovoltaic devices (other than those from countries listed in paragraph (d)(5)(i) or (d)(5)(ii) of this provision) are the product of ___________________. [Offeror to specify country of origin, if known, and provide documentation that the cost of a domestic photovoltaic device would be unreasonable in comparison to the cost of the proposed foreign photovoltaic device, i.e. that the price of the foreign photovoltaic device plus 50 percent is less than the price of a comparable domestic photovoltaic device.]

(6) If $191,000 or more, the Offeror certifies that each photovoltaic device to be used in performance of the contract is—

(i) A domestic or designated country photovoltaic device [Offeror to specify country of origin____________];

(ii) A U.S.-made photovoltaic device; or

(iii) A qualifying country photovoltaic device from Egypt of Turkey (photovoltaic devices from other qualifying countries to be listed in paragraph (d)(6)(i) of this provision as designated country photovoltaic devices). [Offeror to specify country of Origin____________.]

252.227-7017 IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JAN 2011)

(a) The terms used in this provision are defined in following clause or clauses contained in this solicitation--

(1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovation Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovation Research (SBIR) Program clause.

(2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovation Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovation Research (SBIR) Program clause.

(b) The identification and assertion requirements in this provision apply only to technical data, including computer software documentation, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovation Research Program, the notification and identification requirements do not apply to technical data or computer software that
will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.

(c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.

(d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

<table>
<thead>
<tr>
<th>Technical Data or Computer Software to be Furnished</th>
<th>Asserted Basis for Rights</th>
<th>Name of Person Asserting Rights</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Restrictions* Asserted** Category*** Restrictions****</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such item, component, or process. For computer software or computer software documentation identify the software or documentation.

**Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.

***Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).
****Corporation, individual, or other person, as appropriate.

*****Enter "none" when all data or software will be submitted without restrictions.

Date  

Printed Name and Title  

Signature  

(End of identification and assertion)

(e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.

(f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.
I. NOTICE: The following solicitation provisions pertinent to this section are hereby incorporated by reference:

### A. FEDERAL ACQUISITION REGULATION SOLICITATION PROVISIONS

- 52.204-07 SYSTEM FOR AWARD MANAGEMENT (JUL 2013)
- 52.215-01 INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (JAN 2004) - ALTERNATE I (OCT 1997) - ALTERNATE II (OCT 1997)
- 52.215-01 INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (JAN 2004)
- 52.215-16 FACILITIES CAPITAL COST OF MONEY (JUN 2003)
- 52.215-20 REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA (OCT 2010)
- 52.215-20 REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA (OCT 2010) - ALTERNATE III (OCT 1997)

  Alt III, Para (c) Submit the cost portion of the proposal via the following electronic media:
  'As per instructions in Section M'

- 52.215-22 LIMITATIONS ON PASS-THROUGH CHARGES--IDENTIFICATION OF SUBCONTRACT EFFORT (OCT 2009)
- 52.216-01 TYPE OF CONTRACT (APR 1984)
  Type of contract is '??????'
- 52.222-24 PREAWARD ON-SITE EQUAL OPPORTUNITY COMPLIANCE EVALUATION (FEB 1999)
- 52.232-13 NOTICE OF PROGRESS PAYMENTS (APR 1984)
- 52.232-38 SUBMISSION OF ELECTRONIC FUNDS TRANSFER INFORMATION WITH OFFER (JUL 2013)
- 52.233-02 SERVICE OF PROTEST (SEP 2006)
  Para (a) Official or location is 'SMC/ADK, 3548 Aberdeen Drive Kirtland AFB, new Mexico 87117'
- 52.237-01 SITE VISIT (APR 1984)
- 52.250-02 SAFETY ACT COVERAGE NOT APPLICABLE (FEB 2009)
B. DEFENSE FEDERAL ACQUISITION REGULATION SUPPLEMENT SOLICITATION PROVISIONS

252.204-7004 ALTERNATE A, SYSTEM FOR AWARD MANAGEMENT (FEB 2014)
252.215-7007 NOTICE OF INTENT TO RESOLICIT (JUN 2012)
252.215-7008 ONLY ONE OFFER (OCT 2013)
252.227-7028 TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT (JUN 1995)
252.239-7017 NOTICE OF SUPPLY CHAIN RISK (NOV 2013)

C. AIR FORCE FEDERAL ACQUISITION REGULATION SUPPLEMENT SOLICITATION PROVISIONS

5352.209-9001 POTENTIAL ORGANIZATIONAL CONFLICT OF INTEREST (OCT 2010)
  Para (a). Nature of the proposed conflict. ‘TBD’
  Para (a)(1). Nature of proposed restraint and time period. ‘TBD’
5352.215-9000 FACILITY CLEARANCE (MAY 1996)

II. NOTICE: The following solicitation provisions pertinent to this section are hereby incorporated in full text:

FEDERAL ACQUISITION REGULATION SOLICITATION PROVISIONS IN FULL TEXT

52.252-01 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es): http://farsite.hill.af.mil/
52.252-05 AUTHORIZED DEVIATIONS IN PROVISIONS (APR 1984)

(a) The use in this solicitation of any Federal Acquisition Regulation (48 CFR Chapter 1) provision with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the provision.

(b) The use in this solicitation of any Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2) provision with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.
NOTICE: The following solicitation provisions pertinent to this section are hereby incorporated by reference:

**FEDERAL ACQUISITION REGULATION SOLICITATION PROVISIONS**

52.217-04 EVALUATION OF OPTIONS EXERCISED AT TIME OF CONTRACT AWARD (JUN 1988)

52.217-05 EVALUATION OF OPTIONS (JUL 1990)