

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

**1. Contract ID Code**  
Firm Fixed Price

**Page 1 Of 20**

**2. Amendment/Modification No.**

P00007

**3. Effective Date**

2014FEB07

**4. Requisition/Purchase Req No.**

SEE SCHEDULE

**5. Project No. (If applicable)**

**6. Issued By**

U.S. ARMY CONTRACTING COMMAND  
JOSEPH CASIMIRO  
WARREN, MICHIGAN 48397-5000  
HTTP://CONTRACTING.TACOM.ARMY.MIL

**Code**

W56HZV

**7. Administered By (If other than Item 6)**

DCMA DETROIT  
35803 MOUND ROAD  
STERLING HEIGHTS MI 48310

**Code**

S2305A

**8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)**

GENERAL DYNAMICS LAND SYSTEMS INC.  
38500 MOUND RD  
STERLING HEIGHTS, MI 48310-3200

**9A. Amendment Of Solicitation No.**

**9B. Dated (See Item 11)**

**10A. Modification Of Contract/Order No.**

W56HZV-10-C-0409

**10B. Dated (See Item 13)**

2010SEP27

**Code** 7W356

**Facility Code**

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers

is extended,  is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:  
(a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendments; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

**12. Accounting And Appropriation Data (If required)**

SEE SECTION G (IF APPLICABLE)

**13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS**

It Modifies The Contract/Order No. As Described In Item 14.

- A. This Change Order is Issued Pursuant To:** \_\_\_\_\_ **The Changes Set Forth In Item 14 Are Made In**  
**The Contract/Order No. In Item 10A.**
- B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).**
- C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:** Mutual Agreement of Both Parties
- D. Other (Specify type of modification and authority)**

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the Issuing Office.

**14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**

SEE SECOND PAGE FOR DESCRIPTION

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

|   |                         |  |  |
|---|-------------------------|--|--|
| <b>15A. Name And Title Of Signer (Type or print)</b>                                    |                         | <b>16A. Name And Title Of Contracting Officer (Type or print)</b><br>THOMAS K. SARGEE<br>THOMAS.SARGEE@US.ARMY.MIL (586)282-9163 |  |
| <b>15B. Contractor/Offeror</b><br><br>_____<br>(Signature of person authorized to sign) | <b>15C. Date Signed</b> | <b>16B. United States Of America</b><br><br>By _____ /SIGNED/<br>(Signature of Contracting Officer)                              | <b>16C. Date Signed</b><br><br>2014FEB07 |

|  |  |                     |
|--|--|---------------------|
| <b>CONTINUATION SHEET</b>  | <b>Reference No. of Document Being Continued</b> | <b>Page 2 of 20</b> |
|  | PIIN/SIIN W56HZV-10-C-0409                       | MOD/AMD P00007      |
| <b>Name of Offeror or Contractor:</b> GENERAL DYNAMICS LAND SYSTEMS INC. |  |                     |

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: JOSEPH CASIMIRO  
 Buyer Office Symbol/Telephone Number: PM LAV-C/(586)282-9040  
 Type of Contract: Firm Fixed Price  
 Kind of Contract: Supply Contracts and Priced Orders  
 Type of Business: Large Business Performing in U.S.  
 Surveillance Criticality Designator: B  
 Weapon System: No Identified Army Weapons Systems

\*\*\* End of Narrative A0000 \*\*\*

Contract: W56HZV-10-C-0409  
 Modification: P00007  
 Previous Contract Amount: \$8,658,930.00  
 Amount of this Action: (\$396,447.00)  
 Revised Contract Amount: \$8,262,483.00

The purpose of this modification is to specify the following:

1. CANCEL STOP WORK ORDER: The stop work order that was issued on 14 December 2010 relating to the Technical Manuals on CLIN 0008 is hereby canceled. This modification incorporates proposal number W-0297-R3.
2. CANCEL STOP WORK ORDER: The stop work order that was issued on 3, January 2013 relating to the Fuel Tank work for the LAV-C2 and LAV-EW variants is hereby canceled. Contractor is requested to provide a proposal for cost and schedule impacts associated with canceling the Stop Work Order.
3. CDLS's A008 and A014 are deleted as they are no longer a part of the SOW.
4. The following is changed in Section C in the Scope of Work:

From:

C.5.12 MODIFICATION INSTRUCTION. The Contractor shall develop a Modification Instruction (MI) for the fuel system installation. The MI shall be delivered IAW CDRL 0023. The Government requires 15 days advance notification from the Contractor of when the Contractors validation effort of the MI will commence. The Government may witness the Contractors validation effort.

To:

C.5.12 MODIFICATION INSTRUCTION. The Contractor shall develop one Modification Instructions (MI) for all the mission role variant LAV's excluding the C2 and EW variants. The MI shall be in United States Marine Corps format. The contractor shall use the Government Furnished Modification Instruction Format as guidance. The draft/final MI shall be delivered IAW CDRL A023. The MI will be validated and verified (val/ver) at Aberdeen Proving Ground (APG) testing facility, (exact address to be determined), 21 days after the award of Contract Modification P00007. Five contractor representatives shall attend the validation to witness and make necessary changes to the draft MI. Duration of contractor support for the verification is 5 days. The Government will recommend changes for the Contractor to incorporate into the MI during the Contractor's validation effort, and this will constitute the Government's Verification of the MI. The final MI shall capture the changes made as a result of the validation.

5. The following section is added to the Scope of Work:

C.5.12.1 TEMPLATES. In accordance with CLIN 0008AD two hard templates shall be provided for the validation/verification of fuel tank bracket fixtures that will be welded to the vehicle. Templates shall be delivered to Aberdeen Proving Grounds no later than 3 working days prior to the VAL/VER.

6. Section C.9 Retrofit Training, is removed and marked as Reserved.

7. The following is changed in Section E:

E.8.1 First Article Approval Government Testing. The Provisions entitled, First Article Approval-Government Testing, 52.209-4 are applicable to the contract. The First Article requirements are a First Production Inspection (FPI) and a Self-Sealing Capability Demonstration.

E.8.1.1 The Government, at its discretion, may Conditionally Accept the production fuel system prior to satisfactory completion of the first article requirement in order to meet the fuel system delivery schedule. The Contractor shall be responsible for correction of all

|                           |  |                     |
|---------------------------|--|---------------------|
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**Name of Offeror or Contractor:** GENERAL DYNAMICS LAND SYSTEMS INC.

defects on the fuel systems not yet delivered that were conditionally accepted by the Government prior to satisfactory completion of the first article requirement regardless of the conditionally accepted fuel systems geographical location. Final acceptance by the Government of such conditionally accepted fuel system shall be made upon satisfactory completion of the first article requirement and when all defects on the conditionally accepted are corrected to the satisfaction of the Government.

E.8.1.2 In the event that during the course of contract performance, the place of manufacture of end item(s) changes geographical location, the Government may elect to have the Contractor repeat all or portions of the first article requirements.

E.8.1.3 FAT Prototype Fit-Up. The contractor shall install one GFP FAT prototype unit on the GFP LAV-M vehicle at GDLS-C (London,ON). The install shall include the removal of the original fuel tank and the install of the new FAT prototype fuel tank to full operational status. The contractor will not be required to return the LAV-M to original TDP configuration. (Added per Modification P00006)

E.8.1.4 Self-Sealing Capability Demonstration. As part of FAT, the Government will subject two (2) sample fuel tanks to testing to demonstrate that the self-sealing capability meets the requirements of the Performance Specification. The fuel tanks will be shot using 7.62 NATC. The shots will be randomly placed to include corners and applicable spacing between shot. Details of this demonstration are provided in the Performance Specification and Survivability Part II Test and Evaluation Master Plan (TEMP).

E.8.1.5 RAM. As part of FAT, the Government will subject one installed fuel system to mission profiles over 1,200 miles.

E.8.1.6 FOLLOW-ON TESTING. As a component of the Survivability Part II project, up to four (4) fuel systems shall be subjected to follow on RAM and blast testing. Full-up system level testing is expected to last approximately 60 working days and shall be conducted in accordance with the Survivability Part II TEMP, the LAV fuel system Performance Specification, and a Government prepared test program plan. The RAM requirements specified for the fuel system shall be evaluated and scored by the Government per the fuel system Failure Definition/Scoring Criteria (FDSC), which will be developed through the Test Integrated Process Team (TIPT) process. The extent of testing may be reduced at the discretion of the TIPT.

Test Article Quantity Test Operating Hours

\* Survivability Pt II RAM 2 60 Missions Static/Dynamic

\* Survivability Pt II Blast 2

\* Fuel system installed in LAV Vehicles for testing.

Testing shall be in accordance with the LAV fuel system Performance Specification and a Government prepared TEMP. The extent of testing may be reduced by the Government. Final acceptance of the follow-on testing shall not occur until testing has been completed and all test deficiencies are corrected to the satisfaction of the Government. The Government prepared test program plan will be provided to the Contractor for information purposes prior to the start of testing.

E.8.1.7 Full-up system level testing starts with the first day of performance or RAM testing. The test day count will be stopped only by a delay in repair parts replacement by the Contractor. Any delay over 48 hours shall be considered a test stoppage unless authorized by the Government. The Contractor shall not be charged for a test stoppage for delays in testing due to crew or maintenance error, gross negligence, or abuse. The test duration specified in E.8.3 is based on working days 5 days per week.

E.8.1.8 The test vehicles shall be equipped with Government furnished test measurement instrumentation. Daily recordings shall be made throughout Government testing. Data obtained from this test instrumentation will be made available to the Contractor on an as required basis.

E.8.2 FIRST PRODUCTION INSPECTION (FPI).

E.8.2.1 Pursuant to the General Provision entitled, "First Article Approval - Government Testing," the First Production Fuel system shall be subjected to inspections by the Contractor and Government. These inspections shall be in accordance with the provisions contained in the contract and as stated or referenced in the fuel system Performance Specification (Attachment 0001). Inspection and Acceptance would be performed by DCMA via the use of WAWF. At least 20 calendar days prior to submission of the FPI for final inspection, the Contractor shall furnish written notice to the PCO of the time and location of the inspection, so that Government representatives may witness and participate in the inspection(s). The Contractor shall make available to the Government any records of inspection and tests that have previously been conducted on the FPI tank/cell and their components.

E.8.2.2 FPI REPORT. An FPI report shall be prepared and submitted to Government, IAW CDRL A018 . The test report shall be prepared in Contractor format and shall identify all tests and inspections conducted and report all deficiencies detected. The report shall specify the corrective action taken for each reported deficiency and the action taken to preclude this discrepancy from being repeated on follow-on production.

8. The following CLINs are added/deleted:

| <u>CLIN</u> | <u>Added/Delted</u> | <u>Amount</u> |
|-------------|---------------------|---------------|
| 0008AC      | Added               | \$22,087.00   |
| 0008AD      | Added               | \$12,716.00   |

**CONTINUATION SHEET****Reference No. of Document Being Continued****Page 4 of 20****PIIN/SIIN** W56HZV-10-C-0409**MOD/AMD** P00007**Name of Offeror or Contractor:** GENERAL DYNAMICS LAND SYSTEMS INC.

0009AB Deleted (\$431,250.00)

9. All other terms, conditions and specifications of this contract remain unchanged and in full force and effect.

\*\*\* END OF NARRATIVE A0009 \*\*\*

CONTINUATION SHEET

Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-10-C-0409 MOD/AMD P00007

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

| ITEM NO | SUPPLIES/SERVICES  | QUANTITY | UNIT | UNIT PRICE       | AMOUNT        |
|---------|--|----------|------|------------------|---------------|
|         | SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS  |          |      |                  |               |
| 0008    | TECH MANUAL CHANGE PAGES<br>NSN: 0000-00-000-0000  |          |      |                  |               |
| 0008AB  | <p>TECHNICAL MANUAL CHANGE PAGES</p> <p>COMMODITY NAME: TECH MANUAL CHANGE PAGES<br/>                     CLIN CONTRACT TYPE:<br/>                     Firm Fixed Price<br/>                     PRON: T192T1824K PRON AMD: 02 ACRN: AB<br/>                     PSC: 2590<br/>                     CUSTOMER ORDER NO: M6785409MP92420</p> <p>Contractor shall provide Logistics Products IAW C.5.<br/>                     (End of narrative C002)</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u><br/>                     INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u><br/>                     DOC SUPPL<br/>                     REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD<br/>                     001 W56HZV9246H001 Y00000 M 3<br/>                     DEL REL CD QUANTITY DEL DATE<br/>                     001 DELETED<br/>                     002 1 06-OCT-2014</p> <p>FOB POINT: Destination</p> <p>SHIP TO:<br/>                     (Y00000) SHIPPING INSTRUCTIONS FOR CONSIGNEE<br/>                     (SHIP-TO) WILL BE FURNISHED PRIOR<br/>                     TO THE SCHEDULED DELIVERY DATE FOR<br/>                     ITEMS REQUIRED UNDER THIS<br/>                     REQUISITION.</p> | 1        | EA   | \$ 325,197.00000 | \$ 325,197.00 |

CONTINUATION SHEET

Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-10-C-0409 MOD/AMD P00007

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

| ITEM NO    | SUPPLIES/SERVICES   | QUANTITY    | UNIT     | UNIT PRICE     | AMOUNT       |          |       |     |                |        |   |  |   |            |          |          |     |   |             |   |    |                 |              |
|------------|---|-------------|----------|----------------|--------------|----------|-------|-----|----------------|--------|---|--|---|------------|----------|----------|-----|---|-------------|---|----|-----------------|--------------|
| 0008AC     | <p><u>TECHNICAL MANUAL CHANGE PAGES</u></p> <p>COMMODITY NAME: TECH MANUAL CHANGE PAGES<br/>                     CLIN CONTRACT TYPE:<br/>                     Firm Fixed Price<br/>                     PRON: T121T2454K PRON AMD: 01 ACRN: AE<br/>                     PSC: 9999<br/>                     CUSTOMER ORDER NO: M9545012MP22013</p> <p>Contractor shall provide Logistics Products IAW C.5.</p> <p>(End of narrative C001)</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u><br/>                     INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u><br/>                     DOC SUPPL<br/> <table border="1"> <thead> <tr> <th>REL CD</th> <th>MILSTRIP</th> <th>ADDR</th> <th>SIG CD</th> <th>MARK FOR</th> <th>TP CD</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>W56HZV3247H001</td> <td>Y00000</td> <td>M</td> <td></td> <td>3</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>DEL REL CD</th> <th>QUANTITY</th> <th>DEL DATE</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>1</td> <td>06-OCT-2014</td> </tr> </tbody> </table> <p>FOB POINT: Destination</p> <p>SHIP TO:<br/>                     (Y00000) SHIPPING INSTRUCTIONS FOR CONSIGNEE<br/>                     (SHIP-TO) WILL BE FURNISHED PRIOR<br/>                     TO THE SCHEDULED DELIVERY DATE FOR<br/>                     ITEMS REQUIRED UNDER THIS<br/>                     REQUISITION.</p> </p> | REL CD      | MILSTRIP | ADDR           | SIG CD       | MARK FOR | TP CD | 001 | W56HZV3247H001 | Y00000 | M |  | 3 | DEL REL CD | QUANTITY | DEL DATE | 001 | 1 | 06-OCT-2014 | 1 | LO | \$ 22,087.00000 | \$ 22,087.00 |
| REL CD     | MILSTRIP  | ADDR        | SIG CD   | MARK FOR       | TP CD        |          |       |     |                |        |   |  |   |            |          |          |     |   |             |   |    |                 |              |
| 001        | W56HZV3247H001  | Y00000      | M        |                | 3            |          |       |     |                |        |   |  |   |            |          |          |     |   |             |   |    |                 |              |
| DEL REL CD | QUANTITY  | DEL DATE    |          |                |              |          |       |     |                |        |   |  |   |            |          |          |     |   |             |   |    |                 |              |
| 001        | 1   | 06-OCT-2014 |          |                |              |          |       |     |                |        |   |  |   |            |          |          |     |   |             |   |    |                 |              |
| 0008AD     | <p><u>TEMPLATE</u></p> <p>COMMODITY NAME: FUEL TANK BRACKET FIXTURE<br/>                     CLIN CONTRACT TYPE:<br/>                     Firm Fixed Price<br/>                     PRON: T121T2454K PRON AMD: 01 ACRN: AE<br/>                     PSC: 2590<br/>                     CUSTOMER ORDER NO: M9545012MP22013</p> <p>The Templates for the Fuel Tank Bracket Fixture shall<br/>                     be delivered in accordance with C.5.12.1</p> <p>(End of narrative C001)</p> <p><u>Packaging and Marking</u></p>   | 2           | EA       | \$ 6,358.00000 | \$ 12,716.00 |          |       |     |                |        |   |  |   |            |          |          |     |   |             |   |    |                 |              |

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-10-C-0409 MOD/AMD P00007

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

| ITEM NO    | SUPPLIES/SERVICES  | QUANTITY    | UNIT     | UNIT PRICE | AMOUNT |          |       |     |                |        |   |  |   |            |          |          |     |   |             |  |  |  |  |
|------------|--|-------------|----------|------------|--------|----------|-------|-----|----------------|--------|---|--|---|------------|----------|----------|-----|---|-------------|--|--|--|--|
|            | <p>PACKAGING/PACKING/SPECIFICATIONS:<br/>                     SEE PACKAGING REQUIREMENTS CLAUSE IN SECTION D<br/>                     LEVEL PRESERVATION: Commercial<br/>                     LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u><br/>                     INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u><br/>                     DOC SUPPL<br/> <table border="1"> <thead> <tr> <th>REL CD</th> <th>MILSTRIP</th> <th>ADDR</th> <th>SIG CD</th> <th>MARK FOR</th> <th>TP CD</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>W56HZV3247H001</td> <td>Y00000</td> <td>M</td> <td></td> <td>3</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>DEL REL CD</th> <th>QUANTITY</th> <th>DEL DATE</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>2</td> <td>31-MAR-2014</td> </tr> </tbody> </table> <p>FOB POINT: Origin</p> <p>SHIP TO:<br/>                     (Y00000) SHIPPING INSTRUCTIONS FOR CONSIGNEE<br/>                     (SHIP-TO) WILL BE FURNISHED PRIOR<br/>                     TO THE SCHEDULED DELIVERY DATE FOR<br/>                     ITEMS REQUIRED UNDER THIS<br/>                     REQUISITION.</p> <p>CLIN 0008AD Origin is the following:<br/><br/>                     GDLS-C<br/>                     Cage Code 56161<br/>                     1991 Oxford St E.<br/>                     London, ON<br/>                     N5V2Z7, Canada</p> <p>1 each Template shipped to:<br/><br/>                     TRAFFIC MANAGEMENT OFFICER<br/>                     DODAAC M99933<br/>                     MCLB Bldg 1221 Dr 20<br/>                     MF Set Assembly WHSE 1241<br/>                     Dr 13 Special Project PMR (Fuel Tank)<br/>                     Attn: PM LAV (Attn: Matthew Faulk 229-639-8976)<br/>                     Albany, GA 31704-5000</p> <p>1 each Template shipped to:<br/><br/>                     US Army TACOM<br/>                     PROGRAM Manager-Light Armored Vehicle (PM LAV)<br/>                     DODAAC: W56HZV<br/>                     6501 E. 11 Mile Road<br/>                     BLDG 229, RM 170, MAIL STOP 501<br/>                     ATTN: Mike Payne 586-282-9061<br/>                     Warren, MI 48397-5000</p> <p>(End of narrative F001)</p> </p> | REL CD      | MILSTRIP | ADDR       | SIG CD | MARK FOR | TP CD | 001 | W56HZV3247H001 | Y00000 | M |  | 3 | DEL REL CD | QUANTITY | DEL DATE | 001 | 2 | 31-MAR-2014 |  |  |  |  |
| REL CD     | MILSTRIP   | ADDR        | SIG CD   | MARK FOR   | TP CD  |          |       |     |                |        |   |  |   |            |          |          |     |   |             |  |  |  |  |
| 001        | W56HZV3247H001   | Y00000      | M        |            | 3      |          |       |     |                |        |   |  |   |            |          |          |     |   |             |  |  |  |  |
| DEL REL CD | QUANTITY   | DEL DATE    |          |            |        |          |       |     |                |        |   |  |   |            |          |          |     |   |             |  |  |  |  |
| 001        | 2  | 31-MAR-2014 |          |            |        |          |       |     |                |        |   |  |   |            |          |          |     |   |             |  |  |  |  |

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**MOD/AMD** P00007

**Name of Offeror or Contractor:** GENERAL DYNAMICS LAND SYSTEMS INC.

| ITEM NO | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|---------|-------------------|----------|------|------------|--------|
| 0009AB  | <u>DELETED</u>    |          |      |            |        |

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MOD/AMD P00007

**Name of Offeror or Contractor:** GENERAL DYNAMICS LAND SYSTEMS INC.

## SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

SECTION C  
DESCRIPTION/SPECIFICATIONS

## C.1 PROGRAM DESCRIPTION

C.1.1 FUEL SYSTEM PROTECTION. The fuel system shall upgrade the protection provided by the existing Family of Light Armored Vehicles (FOLAV) fuel system. The Contractor shall provide the necessary supplies and services required to deliver a fuel system in accordance with the Performance Specification (PS), Attachment 0001, and the other provisions of the contract.

C.1.2 GOVERNMENT FURNISHED EQUIPMENT/MATERIAL/INFORMATION (GFE/GFM/GFI). A complete list of equipment and materials that will be made available for the Contractor is contained in Attachment 0002.

## C.2 MEETINGS AND REVIEWS

C.2.1 The Contractor shall support the meetings, conferences, and reviews required in this Scope of Work (SOW). The Contractor is encouraged to conduct as many of the meetings in a video teleconferencing format as possible. The Contractor and Government will discuss topics to be discussed prior to all meetings. The Contractor shall be responsible for submitting all Action Items in accordance with CDRL A001 unless otherwise specified for the individual meeting.

C.2.2 START OF WORK MEETING. The Contractor shall conduct a Start of Work meeting at their facility no later than 30 days after contract award for approximately 8 government personnel.

C.2.3 IN-PROCESS REVIEWS (IPR). The Contractor shall host a maximum of three IPRs at their facility or at a mutually agreeable subcontractor's facility. The purpose of these informal, working level meetings will be to assess the progress being made toward meeting the requirements of the Performance Specification and this SOW to include ILS development. Duration of these meetings should not exceed 2 working days. These meetings shall be conducted via video teleconference if mutually agreeable to the Government and Contractor.

## C.3 CONFIGURATION MANAGEMENT (CM).

C.3.1 CONFIGURATION IDENTIFICATION/BASELINE. The fuel system and any vehicle modifications necessary to meet the Performance Specification, Attachment 0001, shall be designated as a Configuration Items (CI). Upon successful completion of first article test, any change that affects form, fit, function, or safety shall require Government approval.

C.3.2 The Contractor shall document, track and notify the Government of all changes. All configuration changes that affects form, fit, function, or safety require Government approval via the Engineering Change Proposal (ECP) or Request for Deviation (RFD) process (reference CDRLs A002 and A003).

## C.3.2.1 The Contractor shall have a configuration control program to:

- a. Ensure effective control of all CIs and their approved configuration documentation.
- b. Provide effective means for:
  - (1) Proposing engineering changes to CIs,
  - (2) Requesting Deviations to such items.
- c. Ensure implementation of approved changes.

## C.4 ENGINEERING DATA.

C.4.1 TECHNICAL DATA PACKAGE (TDP). The Contractor shall develop and deliver the Technical Data Package (TDP) in accordance with CDRL A016 for the fuel system modification items. The TDP shall consist of technical documentation, including but not limited to: drawings, CAD (Computer Aided Design) models, parts lists, and Bills of Materials.

C.4.2 ENGINEERING DRAWINGS. In accordance with CDRLs A0015 and A016, the Contractor shall develop complete product engineering drawings, CAD models, IBOMS and Associated Lists in accordance with MIL-DTL- 31000C. As guidance, these commercial specs can be used: ASME Y14.100M and ASME Y14.34.M; drawing dimensions and tolerances shall be per ASME Y14.5M-2009. Engineering drawings shall include assembly and detail drawings down to the piece part for the items designed and developed at Government expense. Product drawings which are developed at Government expense will have unlimited rights. Interface, space claim, or envelope drawings would fall under this category. Commercial Control drawings shall be developed for all commercial off the shelf, non-developmental items, and items developed at private expense for which the Government has not acquired unlimited rights. These control drawings shall provide the applicable performance specification form, fit, and function information needed for competitive procurement of that item or an interchangeable item. Control drawings which include proprietary data will have limited rights only to the Department of Defense. Contracting/purchase of these commercial drawings shall be in accordance with DFARS Part 211 and Part 227. Complete CAD models shall be delivered in native format and ISO 10303 Standard For The Exchange Of Product (STEP) format. 2 Dimensional drawings shall be in AutoCAD, DXF, STEP or PDF format. AutoCAD must be capable of being exported to ISO 10303 Standard for the Exchange of Product (STEP) format.

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C.5 INTEGRATED LOGISTIC SUPPORT (ILS)

C.5.1 FUEL SYSTEM INTEGRATED LOGISTICS SUPPORT (ILS) PROGRAM OVERVIEW. The Contractor shall conduct an ILS program in order to plan, manage, validate, execute and deliver logistical data and services for the Fuel System Program. The objectives of ILS are to optimize material readiness; provide cost effective logistics support; and identify/evaluate resources required to develop, acquire and manage the fuel system. The Government and Contractor shall evaluate logistics data to support those objectives.

C.5.2 LOGISTICS PLANNING. At the first IPR, the Contractor shall brief their ILS plan. The Contractor shall at a minimum, brief schedules and key ILS milestones for the program. Additional topics/processes to be discussed include:

- a. Maintenance planning
- b. Contractor support requirements
- c. Support Equipment (SE) and Test Measurement and Diagnostic Equipment (TMDE) development and identification
- d. RESERVED
- e. RESERVED
- f. Technical data support (provisioning data, technical publications, engineering data for provisioning (EDFP), etc)
- i. Design influence and integration efforts with System Engineering
- j. Packaging, Handling, Storage, and Transportation (PHS&T)
- k. Configuration Management
- l. Recommended Repair Parts List (RRPL) generation
- m. RESERVED
- n. Provisioning to include procedures for developing data and identifying long lead-time items.

C.5.3 RESERVED

C.5.4 RESERVED

C.5.5 LOGISTICS DATA DEVELOPMENT. The Contractor shall develop logistics management information (LMI) data that is supported by the Contractor engineering design efforts and the Contractor-developed logistics data for subsystems, and components. MIL-PRF-49506 may be used as guidance. The Contractor shall establish a logistics database using the Engineering Bill of Materials (EBOM). The database shall contain, at a minimum tools, parts/ components, bulk items, indenture levels, Source Maintenance Recoverability (SMR) Codes, Military Occupational Skills (MOS), and maintenance times to perform each task. Additional database requirements may be identified at the Logistics Reviews.

C.5.6 MANAGEMENT OF LOGISTICS DATA. The Contractor shall maintain and update its logistics documentation. Each update shall be considered as new data for purposes of review, approval, and delivery. Data shall be updated to reflect changes in support requirements resulting from logistics support improvements or corrections resulting from a Government/Contractor analysis of testing data.

C.5.7 ENGINEERING DATA FOR PROVISIONING (EDFP). The Contractor shall deliver the EDFP IAW CDRL A019. The EDFP shall, at a minimum, provide:

- a. Technical identification of items for maintenance support considerations.
- b. Source of supply and/or manufacturers of the items.

C.5.7.1 EDFP is required in the order of preference shown below:

- a. Government or recognized industry specifications or standards.
- b. Engineering drawings.
- c. Commercial catalog illustrations and/or descriptions.
- d. Sketches or photographs with brief descriptions of dimensional, material, mechanical, electrical or other descriptive characteristics. When sketches or photographs are provided for an assembly, a parts list shall be provided.

C.5.8 PROVISIONING SCREENING. The Contractor shall submit provisioning screening to Mike Davis NLT 45 days prior to the Provisioning Conference in accordance with CDRL A009. The data shall address complete assemblies for each provisioning conference. The Contractor may use LOGRUN for this effort.

C.5.9 PROVISIONING MASTER RECORD (PMR). The Contractor shall develop provisioning data to support the fuel system program IAW MIL-STD 1840C and MIL-PRF-49506, Appendix B. The Contractor shall arrange the provisioning data in a top-down breakdown sequence. MIL-HDBK-502 may be used as a guide. The data shall be delivered IAW CDRL A010.

C.5.10 RESERVED

C.5.11 PROVISIONING CONFERENCE. The Contractor shall host one Provisioning Conference via teleconference for the Fuel Tank System no

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later than 90 days after award of Modification P00007. The Government will provide personnel to witness and this will constitute the Government verification. The Contractor shall have knowledgeable personnel at the provisional conference to answer Government questions and resolve issues.

C.5.12 MODIFICATION INSTRUCTION. The Contractor shall develop one Modification Instruction (MI) for all the mission role variant LAV's excluding C2 and EW variants. The MI shall be in United States Marine Corps format. The contractor shall use the Government Furnished Modification Instruction Format as guidance. The draft/final MI shall be delivered IAW CDRL A023. The MI will be validated and verified (val/ver) at Albany, GA testing facility, (exact address to be determined), 21 days after the award of Contract Modification P00007. Five contractor representatives shall attend the validation to witness and make necessary changes to the draft MI. Duration of contractor support for the verification is 5 days. The Government will recommend changes for the Contractor to incorporate into the MI during the Contractor's validation effort, and this will constitute the Government's Verification of the MI. The final MI shall capture the changes made as a result of the validation.

C.5.12.1 TEMPLATES. In accordance with CLIN 0008AD two hard templates shall be provided for the validation/verification of fuel tank bracket fixtures that will be welded to the vehicle.

C.5.13 INITIAL SPARE/REPAIR PARTS. The Contractor shall deliver a listing of spare/repair parts and assemblies in top down breakdown order for government review and approval in accordance with CDRL A011. Listing of parts shall include, as a minimum, Part Number, Item Name, Unit of Issue, Quantity per System, Recommended Buy Quantity, Price and Source, Maintenance Recoverability Code (SMRC). Listing shall support fuel systems for the first 2 years after last production system installation. The Government will review the listing and selected items will determine the quantity required.

C.5.14 TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT. The Contractor shall identify any test equipment necessary to diagnose the fuel system and prepare troubleshooting procedures at the organizational and intermediate level of repair.

C.6 VERIFICATION OF CONFIGURATION ITEMS.

C.6.1 INDENTED BILL OF MATERIAL (IBOM). The Contractor shall deliver to the Government an Indented Bill of Material (IBOM) IAW CDRL A015. The IBOM shall represent all fuel system items. The IBOM shall be prepared in Contractor format and shall contain, at a minimum, item number, item name/description, and quantity. The IBOM shall be prepared in indented level sequence for the fuel system for the FOLAV. The IBOM shall constitute the Physical Configuration Audit (PCA) Candidates List. Within 30 days from receipt of the IBOM, the Government will advise the Contractor which items they intend to audit. Within 45 days after receipt of Government comments, the Contractor shall notify the Government when these items are available to audit.

C.6.2 PHYSICAL CONFIGURATION AUDIT. The Government will conduct one Physical Configuration Audit (PCA) on the fuel system items (i.e. components, assemblies, and subassemblies). The PCA will audit component interfaces with the vehicle. The GFE vehicle shall be used as a platform to perform the PCA. The PCA shall be the formal examination of the as-built configuration of the identified item against its design documentation. The PCA includes a detailed audit of engineering drawings, specifications, technical data, tests utilized in production of configuration items, and design documentation, listings, and operation and support documents. The PCA shall include an audit of the released engineering documentation and quality control records to make sure the as-built or as-coded configuration is reflected by this documentation. MIL-STD-973 and ANSI/GIA-EIA-649 may be used for further guidance on PCAs.

C.6.3 The PCA shall be conducted at the Contractor's or subcontractor's site on the selected candidates. The audit will be conducted on the first production unit of the selected candidates. The Government will initially audit no more than 25% of the entire PCA candidates. In order for the Contractor to pass the audit, 95% of audited items must be acceptable on the first attempt. Acceptable is defined as the as-built hardware matches the design documentation (drawing.) If the pass criteria of 95% is NOT met, the Contractor shall review the entire fuel system TDP and make all necessary corrections to ensure that the as-built hardware matches the drawings. The Government reserves the right to perform additional audits of 15% of the remaining PCA candidates if the first audit is unsuccessful until a 95% level is achieved. The government audit team generally consists of a Systems Engineer, Logistics Management Specialist, Quality Engineer, and, if necessary, the Program Manager.

C.6.4 PCA SUPPORT. The Contractor shall provide the necessary materials, tools and resources to effectively support the PCA. The Prime Contractor may have their vendors available at the PCA.

C.7 HUMAN FACTORS ENGINEERING & SAFETY

C.7.1 HUMAN FACTORS ENGINEERING. The Contractor shall use sound Human Factors Engineering (HFE) principles (as presented in MIL-HDBK-759) in integrating the fuel system.

C.7.2 ENVIRONMENTAL, SAFETY & HEALTH (ES&H). The Contractor shall use sound safety engineering practices (as presented in MIL-HDBK-764) in the fuel system program, including the following (the requirements of this section apply only to new or modified components affected by the fuel system and current vehicle components/systems that are affected by integration of the upgrades):

- Identifying system hazards by conducting safety analyses and hazard evaluations. The analyses shall include both operational and

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maintenance aspects of the vehicle.

- Controlling or minimizing hazards to personnel or the environment that cannot be avoided or eliminated.
- Ensuring all moving parts, mechanical power transmission devices, exhaust system components, pneumatic components and hydraulic components which present a hazard to personnel, are either enclosed or guarded. Protective devices shall not impair operational functions.
- Ensuring that suitable warning and caution notes are included in operation, maintenance, assembly and repair instructions and those distinctive markings are placed on hazardous components or equipment.
- Tracking hazards until they are eliminated or adequately controlled.
- Documenting the actions taken to eliminate a hazard or reduce the risk of its occurrence.
- Eliminating or reducing hazards through design; thus minimizing any potential retrofit actions.
- Ensuring the severity of personnel injury or equipment damage is minimized in the event of a mishap.

General Requirements. The Contractor shall comply with the Occupational Safety and Health Administration (OSHA) regulation and applicable state and local regulation. The Contractor shall identify the general procedures for disposition and disposal of hazardous waste generated for this effort. The Contractor shall comply with the applicable federal, state and local statutes and regulation relating to protection of the environment and public safety and health. Environmentally preferable, recycled, or recovered materials shall be used to the maximum extent possible in the procurement/manufacture of unique parts provided that the material meets or exceeds the operational and maintenance requirements of the fuel system and the FOLAV.

#### C.8 ENVIRONMENTAL, SAFETY & HEALTH

C.8.1 SAFETY ASSESSMENT REPORT (SAR). The Contractor shall perform and document a system safety assessment to identify all safety features of the hardware and software design. The assessment shall also identify hardware, software (if applicable to fuel system upgrades) and procedural related hazards that may be present in the system or equipment. This assessment shall be a comprehensive evaluation of the risk of a mishap occurring prior to testing or operation of the system. The Safety Assessment Report shall be prepared in Contractor format and delivered IAW CDRL A005. MIL-STD-882 can be used as guidance. The Government will provide to the Contractor the current LAV SAR for reference purposes. The SAR shall:

- Briefly describe the fuel system and its components as well as other impacted vehicle changes with the fuel system integrated into the FOLAV
- Provide general physical characteristics of the system and components. Use photos, diagrams, sketches or drawings as necessary.
- Identify all safety features of the hardware, system design and inherent hazards.
- Establish special procedures and/or precautions to be observed by Government test agencies and system operators and maintainers to ensure the safety of personnel and property.
- Summarize the safety criteria/methods used to classify and rank hazards.
- Summarize results of tests and analyses used to identify hazards. Include results of tests conducted to validate safety criteria or requirements.
- Identify hazards that still pose a risk to users, and actions that have been taken to reduce this risk.
- Categorize hazards as to whether they may be expected to occur under normal or abnormal use.
- Annotate any hazardous material generated or used in the system. Provide the appropriate procedures/precautions for packaging, handling, storage, use, transportation and disposal of the material. Include explosive hazard classifications.
- Include applicable Material Safety Data Sheets.
- Identify all reference or source documents used to prepare the report.
- A signed statement from the Contractor indicating that identified hazards have been controlled or eliminated and the system is ready for operation/test.

C.8.2 SAR UPDATES. As a result of any safety analysis, hazard evaluation, or Government or independent Contractor testing, or if procedural changes are made, the Contractor shall update the SAR to reflect those modifications or changes that impart the safety of the fuel system. The Contractor shall submit an updated SAR IAW CDRL A005. In addition, the Contractor shall immediately notify the Government (within 24 hours) via phone, e-mail, or fax if new hazards or increased risk/hazard probability levels are identified while Government testing of the fuel system ongoing.

C.8.3 HEALTH HAZARD ASSESSMENT. The Contractor shall perform and document a Health Hazard Assessment to identify health/environmental hazards and to recommend engineering controls, equipment, and/or protective procedures, to reduce the associated risk to an acceptable level. A health hazard is defined as an existing or likely condition, inherent to the operation, maintenance, transport, storage or use of material/ equipment, that can cause death, injury, acute or chronic illness, disability, or reduced job performance of personnel. As part of this effort, the Contractor shall:

- Perform analyses to determine if materials cause adverse effects in living creatures.
- Determine if materials pose a present/future threat to the environment.
- Identify if materials cause damage to equipment/property during the life cycle of the system.
- Evaluate and recommend alternative materials that reduce risk levels. Cost considerations shall be part of the evaluation.
- Determine if hazardous wastes are generated and identify controls.

C.8.4 HEALTH HAZARD CONSIDERATIONS. Items to be assessed include, but are not limited to:

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- Noise: Steady State and Impulse
- Toxic Gases
- Chemical hazards - Address the chemicals identified in the Material Safety Data Sheets to be provided with the Safety Assessment Report.
- Ionizing or non-ionizing radiation.
- Heat and Cold (to include heat stress).
- Shock and vibration to crew members and ammunition.
- Electromagnetic Radiation Effects (EMRE).
- Generation of hazardous wastes.
- Biological hazards.
- Blast overpressure.

C.8.5 HEALTH HAZARD ANALYSIS REPORT (HHAR). The HHAR shall be submitted in Contractor format per CDRL A006 The data for this report shall, as much as possible, be collected from the fuel system upgraded vehicle the Contractor submits for Government testing. The Contractor in his report shall:

- Identify, describe and discuss each potential or actual health hazard issue. Include whether the hazard may be expected to occur under normal or unusual operating, maintenance or storage conditions.
- Recommend actions to eliminate, reduce or control each actual or potential health hazard described.
- Identify hazardous materials by chemical name, common or trade name, NSN (if applicable), physical form and manufacturer/supplier.
- Annotate where in the system or equipment hazardous materials are used.
- Identify the conditions under which hazardous materials pose a health threat.
- Recommend disposal actions for each identified hazardous material.
- List all source materials and references used for preparing the report.

C.8.6 HAZARD TRACKING. The Contractor shall develop a method or procedure to document and track hazards from identification until the hazard is eliminated or the associated risk is reduced to a level acceptable to the Government. MIL-STD-882 can be used as reference. A central file or document called a "Hazard Log" shall be maintained by the Contractor. The Hazard Log shall be available for Government review. The Hazard Log shall contain as a minimum:

- A description of each hazard, to include cause, possible effect, and hazard category.
- Status of each hazard.
- Traceability of the resolution action on each hazard, from the time the hazard was identified to the time the risk associated with the hazard was reduced to a level acceptable to the Government.
- All hazards identified through testing and other analyses.

C.8.7 HAZARD LOG. The definitions of Severity Categories and Probability Levels identified in Tables 1 and 2 below shall apply when determining whether a hazard must be identified on the Hazard Log.

TABLE 1 - HAZARD SEVERITY CATEGORY

| <u>DESCRIPTION</u> | <u>CATEGORY</u> | <u>DEFINITION</u>  |
|--------------------|-----------------|--|
| Catastrophic       | I               | Death, system loss or severe environmental damage                                  |
| Critical           | II              | Severe injury, severe occupational illness or major system or environmental damage |
| Marginal           | III             | Minor injury, minor occupational illness or minor system or environmental damage   |
| Negligible         | IV              | Less than minor injury, less than minor occupational illness or less than minor    |

TABLE 2 - HAZARD PROBABILITY LEVELS

| <u>DESCRIPTION</u> | <u>LEVEL</u> | <u>FUEL SYSTEM COMPONENT LEVEL</u>  | <u>VEHICLE FLEET LEVEL</u>   |
|--------------------|--------------|---|--|
| Frequent           | A            | Hazard is likely to occur   | Hazard will be experienced continuously                            |
| Probable           | B            | Hazard will occur frequently  | Hazard will occur several times during the life of the fuel system |
| Occasional         | C            | Hazard is likely to occur sometime during the life of the fuel system           | Hazard will occur several times                                    |
| Remote             | D            | Hazard is unlikely, but could possibly occur during the life of the fuel system | Hazard is unlikely but it can reasonably be expected to occur      |

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Improbable E Hazard is very unlikely and it can be assumed not to occur Hazard is unlikely but it can possibly occur

C.8.8 All hazards identified with the following combination of Severity Categories and Probability Levels shall be included on the Hazard Log:

|              |                    |
|--------------|--------------------|
| Category I   | Levels A through E |
| Category II  | Levels A through D |
| Category III | Levels A through C |
| Category IV  | Level A            |

C.8.9 DISPOSITION AND CLOSEOUT. All hazards must receive final disposition by the Government. The Government and the Contractor shall mutually agree as to whether a hazard requires a redesign; however, any redesign required due to a hazard shall be performed at no cost to the Government, and the adequacy of the design change shall remain the responsibility of the Contractor. All hazards closed out in the log shall contain the signature of the Government official who authorized the closeout, his or her organization, and the date the closeout was authorized. Government signature authority to closeout a hazard shall be based on Table 3 below.

TABLE 3 - HAZARD APPROVAL LEVELS

| HAZARD ASSESSMENT    | CLOSEOUT AUTHORITY           | RISK LEVEL                       | CORRECTIVE ACTIONS                   |
|----------------------|------------------------------|----------------------------------|--------------------------------------|
| I A, B, C            |                              |                                  |                                      |
| II A, B              | PM-LAV                       | Unacceptable                     | Mandatory                            |
| III A                |                              |                                  |                                      |
| I D                  |                              |                                  |                                      |
| II C, D              | Division Chief, Marine Prog. | Undesirable                      | Mandatory, unless waived by Customer |
| III B, C             |                              |                                  |                                      |
| I E                  | Team Leader                  | Acceptable, with Customer Review | Possible, based on Customer Review   |
| II A                 |                              |                                  |                                      |
| All other categories | Not Required                 | Acceptable                       | Not Required                         |

C.8.10 UPDATES. The hazard log shall be updated upon identification of each new hazard. The Government reserves the right to require the addition of items to or modifications to the Hazard Log.

C.8.11 ENVIRONMENTAL ASSESSMENT. In order to support Government testing, the Contractor shall perform an Environmental Assessment to determine environmental impacts of the fuel system tests and installation. The results shall be submitted in Contractor format per CDRL A007. The assessment shall contain an analysis of the possible impacts that the upgrades may have on the environment (personnel, wildlife, atmosphere, water, vegetation, and soil) while it is being operated, transported, or stored. Include any hazardous/toxic wastes generated.

C.9 RESERVED

C.10 MANUFACTURING PLAN. The Contractor shall prepare and submit a Manufacturing Plan IAW CDRL A004. Updates will be required if any of the critical process characteristics are changed as a result of the planning process. Examples of such changes are: changing a critical process method, changing the subcontracted effort, changing the share of work performed at subcontractors or the system integrator.

\*\*\* END OF NARRATIVE C0002 \*\*\*

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## SECTION E - INSPECTION AND ACCEPTANCE

SECTION E  
INSPECTION/ACCEPTANCE

E.1 INSPECTION AND ACCEPTANCE POINT (Hardware): Origin

E.2 INSPECTION AND ACCEPTANCE POINT (Data): The inspection and acceptance of any data delivered under this contract shall be at destination. Destination shall be those addresses set forth in the CDRL A008 for each deliverable data item.

E.3 QUALITY ASSURANCE. The Contractor shall establish, implement, document and maintain a quality system that ensures conformance to contractual requirements. The Contractor shall implement the requirements of ANSI/ASQC Q9001, ISO 9001 or an equivalent quality system model. No third party certification is required.

E.4 QUALITY SYSTEM AUDITS/INSPECTIONS. Operating procedures and inspection records that document the Contractor's adherence to their Quality System shall be made available for Government review when requested. The Contractor is subject to procedural audits or product inspections at any point during contract performance and shall provide audit/inspection assistance upon request. Audits and product inspections will be conducted by the Government to verify the Contractor's compliance to their quality program and compliance to their documented operating procedures.

E.4.1 The PCO, ACO or the Government Quality Assurance Representative (QAR) shall provide audit and inspection results to the Contractor. The Contractor shall respond to all unsatisfactory audit and inspection results within 30 days from receipt of the Government Audit/Inspection Response Report(s) and provide corrective action as required in accordance with CDRL A020. All deficiencies detected during any Government audit(s) or product inspections shall be corrected by the Contractor IAW their documented Quality Assurance Program.

E.5 INSPECTION EQUIPMENT. The Contractor shall be responsible for supplying and maintaining all inspection and test equipment necessary to assure the fuel system and components conform to contract requirements. All inspection equipment shall be available for use at the start of production. The Contractor shall make available to the Government applicable and necessary inspection equipment upon request for use during Government inspections. The Government will return all inspection equipment upon completion of inspection.

E.6 DRAWINGS FOR INSPECTION. When requested, the Contractor shall provide legible drawings and printed specifications to which the fuel system was manufactured. These drawings and specifications shall be annotated to the latest revision. After the Government completes the product inspection and acceptance, the Government will return all drawings and specifications to the Contractor.

E.7 QUALITY ASSURANCE REQUIREMENTS.

E.7.1 SECTIONS 3 & 4 OF THE PERFORMANCE SPECIFICATION. Section 3 of the Performance Specification (Attachment 0001) provides the performance and inspection/test requirements. Section 4 (inclusive), Quality Assurance Provisions constitutes quality assurance requirements along with those requirements set forth in the contract.

E.7.2 QUALITY RECORDS. Quality records of the examinations and tests performed by the Contractor shall be kept complete and available to the Government for a period of two years following completion of the contract.

E.8 FIRST ARTICLE TEST REQUIREMENTS.

E.8.1 First Article Approval Government Testing. The Provisions entitled, First Article Approval-Government Testing, 52.209-4 are applicable to the contract. The First Article requirements are a First Production Inspection (FPI) and a Self-Sealing Capability Demonstration.

E.8.1.1 The Government, at its discretion, may Conditionally Accept the production fuel system prior to satisfactory completion of the first article requirement in order to meet the fuel system delivery schedule. The Contractor shall be responsible for correction of all defects on the fuel systems not yet delivered that were conditionally accepted by the Government prior to satisfactory completion of the first article requirement regardless of the conditionally accepted fuel systems geographical location. Final acceptance by the Government of such conditionally accepted fuel system shall be made upon satisfactory completion of the first article requirement and when all defects on the conditionally accepted are corrected to the satisfaction of the Government.

E.8.1.2 In the event that during the course of contract performance, the place of manufacture of end item(s) changes geographical location, the Government may elect to have the Contractor repeat all or portions of the first article requirements.

E.8.1.3 FAT Prototype Fit-Up. The contractor shall install one GFP FAT prototype unit on the GFP LAV-M vehicle at GDLS-C (London,ON). The install shall include the removal of the original fuel tank and the install of the new FAT prototype fuel tank to full operational status. The contractor will not be required to return the LAV-M to original TDP configuration. (Added per Modification P00006)

E.8.1.4 Self-Sealing Capability Demonstration. As part of FAT, the Government will subject two (2) sample fuel tanks to testing to demonstrate that the self-sealing capability meets the requirements of the Performance Specification. The fuel tanks will be shot using

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7.62 NATC. The shots will be randomly placed to include corners and applicable spacing between shot. Details of this demonstration are provided in the Performance Specification and Survivability Part II Test and Evaluation Master Plan (TEMP).

E.8.1.5 RAM. As part of FAT, the Government will subject one installed fuel system to mission profiles over 1,200 miles.

E.8.1.6 FOLLOW-ON TESTING. As a component of the Survivability Part II project, up to four (4) fuel systems shall be subjected to follow on RAM and blast testing. Full-up system level testing is expected to last approximately 60 working days and shall be conducted in accordance with the Survivability Part II TEMP, the LAV fuel system Performance Specification, and a Government prepared test program plan. The RAM requirements specified for the fuel system shall be evaluated and scored by the Government per the fuel system Failure Definition/Scoring Criteria (FDSC), which will be developed through the Test Integrated Process Team (TIPT) process. The extent of testing may be reduced at the discretion of the TIPT.

Test Article Quantity Test Operating Hours

\* Survivability Pt II RAM 2 60 Missions Static/Dynamic

\* Survivability Pt II Blast 2

\* Fuel system installed in LAV Vehicles for testing.

Testing shall be in accordance with the LAV fuel system Performance Specification and a Government prepared TEMP. The extent of testing may be reduced by the Government. Final acceptance of the follow-on testing shall not occur until testing has been completed and all test deficiencies are corrected to the satisfaction of the Government. The Government prepared test program plan will be provided to the Contractor for information purposes prior to the start of testing.

E.8.1.7 Full-up system level testing starts with the first day of performance or RAM testing. The test day count will be stopped only by a delay in repair parts replacement by the Contractor. Any delay over 48 hours shall be considered a test stoppage unless authorized by the Government. The Contractor shall not be charged for a test stoppage for delays in testing due to crew or maintenance error, gross negligence, or abuse. The test duration specified in E.8.3 is based on working days 5 days per week.

E.8.1.8 The test vehicles shall be equipped with Government furnished test measurement instrumentation. Daily recordings shall be made throughout Government testing. Data obtained from this test instrumentation will be made available to the Contractor on an as required basis.

E.8.2 FIRST PRODUCTION INSPECTION (FPI).

E.8.2.1 Pursuant to the General Provision entitled, "First Article Approval - Government Testing," the First Production Fuel system shall be subjected to inspections by the Contractor and Government. These inspections shall be in accordance with the provisions contained in the contract and as stated or referenced in the fuel system Performance Specification (Attachment 0001). Inspection and Acceptance would be performed by DCMA via the use of WAWF. At least 20 calendar days prior to submission of the FPI for final inspection, the Contractor shall furnish written notice to the PCO of the time and location of the inspection, so that Government representatives may witness and participate in the inspection(s). The Contractor shall make available to the Government any records of inspection and tests that have previously been conducted on the FPI tank/cell and their components.

E.8.2.2 FPI REPORT. An FPI report shall be prepared and submitted to Government, IAW CDRL A018 . The test report shall be prepared in Contractor format and shall identify all tests and inspections conducted and report all deficiencies detected. The report shall specify the corrective action taken for each reported deficiency and the action taken to preclude this discrepancy from being repeated on follow-on production.

E.9 TEST INCIDENT REPORT (TIR)/FAILURE ANALYSIS & CORRECTIVE ACTION REPORT (FACAR).

E.9.1 PROCESSING TIRs AND FACARs. The Government will make available to the Contractor a copy of each TIR generated as a result of Government testing. TIRs will be provided to the Contractor electronically either by the PCO or the Contracting Officers Representative (COR). Only TIRs affecting contractual compliance or performance will require a FACAR IAW CDRL A013. The Government, within 20 days after receipt of the TIR, will notify the Contractor electronically of those TIRs that will require a FACAR.

E.9.1.2 Upon receipt of the Governments request for failure analysis, the Contractor shall submit a FACAR to PM-LAV, electronically, in Contractor format, per CDRL A013. The timeframes specified for Critical, Major and Minor TIRs in E.9.3 and E.9.4 shall apply for all TIR responses. The following information shall be required on the FACAR, as a minimum:

- a. TIR Number
- b. Failure analyses report number
- c. Response date
- d. Contract number
- e. Equipment title
- f. Serial number of affected equipment
- g. Date of failure
- h. Type of test that failed

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- i. Effect on equipment
- j. Total test time at failure
- l. Failure analysis results
- m. Statement as to whether this was a pattern failure
- n. Corrective action to be taken
- o. Measures to prevent future failures

E.9.3 FACAR RESPONSES. The Contractor shall provide FACARs electronically IAW CDRL A013 to PM-LAV within the following specified timelines:

|                        |   |
|------------------------|---|
| Critical Test Incident | - Within 48 hours after receipt of TIR. |
| Major Test Incident    | - Within 10 days after receipt of TIR.  |
| Minor Test Incident    | - Within 30 days after receipt of TIR.  |
| Info. Test Incident    | - Within 30 days, if required.          |

E.9.4 INTERIM RESPONSE. If a FACAR cannot be provided within the timeframes specified in E.9.3, the Contractor shall submit an interim response within the following timelines:

|               |                          |
|---------------|--------------------------|
| Critical TIRs | - 24 hours after receipt |
| Major TIRs    | - 3 days after receipt   |
| Minor TIRs    | - 10 days after receipt  |

An interim response shall state the current status of the Contractors investigation, the reason why a final response cannot be provided within the time frame specified, and a date when the final response will be provided. Requests by the Contractor to modify or extend the time period of the interim response must be reviewed and approved by the PCO or his/her authorized representative before another extension can be authorized.

E.9.5 FINAL RESPONSES. IAW CDRL A013, final FACAR are required for all TIRs (Critical, Major and Minor), within the timeframes specified in E.9.3 unless the Contractor, per E.9.4, has submitted an interim response, then final responses are required on the date provided on the interim response. The Contractor shall indicate the recommended corrective action and status (Final or Interim) on each FACAR. PM-LAV will evaluate each final FACAR and determine if it is acceptable to close, or if it should remain open pending further information or testing. The PCO or their representative shall notify the Contractor if further information or action is required or if the TIR is closed.

E.9.6 The Contractor shall prepare certifications for materials/components as identified by the Performance Specification to verify that the requirements of those particular material/components are met. These certifications must be substantiated with documented test reports, performance data, analytical data or vendor reports. Such documentation must be affixed to the certification. The Contractor shall provide each certification to the Government at the time of FPI (ref. E.8.2) for review and approval. In the event that the Government disapproves any certifications, the Contractor shall conduct additional tests/inspections or provide additional documentation at no additional cost to the Government.

E. 10 INSPECTION OF HARDWARE. The Contractor shall conduct a complete inventory and final inspection of each fuel system prior to delivery, IAW the Acceptance Test Procedures (ATP) (CDRL A012). The final inspection shall be documented utilizing the Contractor-prepared Final Inspection Record (CDRL A022). Deficiencies detected during this inspection by the Contractor or Government shall be documented as part of the ATP and corrected by the Contractor prior to acceptance by the Government. If a trend of quality or workmanship deficiencies becomes apparent, the Government has the right to stop acceptance of fuel systems until the Contractor corrects all reported deficiencies.

E.11 IN-PROCESS INSPECTION. The Government reserves the right to inspect end items or any parts/components during all manufacturing processes and reject such material that does not conform to either Government or Contractor drawing/specifications. Such inspections by the Government may be performed at the Contractors predetermined inspection stations. All deficiencies detected during any Contractor or Government inspection (end item or in-process) shall be corrected by the Contractor at no cost to the Government. During any Government inspection, the Contractor shall provide assistance upon request.

E.12 CHANGE OF SUPPLIERS. If the Contractor changes sources of supply for any components/material that affects provisioned items, technical publications, or Certifications, the Government reserves the right to require the Contractor to conduct another component level First Article Test. If required, this testing shall be successfully accomplished at Contractors expense prior to acceptance of any item containing the component furnished by the new supplier.

E.13 PRODUCT QUALITY DEFICIENCY REPORTS (CONTRACTOR SUPPLIED ITEMS).

E.13.1 The Contractor shall investigate, conduct failure analysis, and provide a corrective action response to all Product Quality Deficiency Reports (PQDRs - SF 368) generated by the user. PQDR investigations and failure analysis responses shall be limited only to the fuel system components and LAV items/components that fail as a result of the fuel system or the integration process under. The Contractor shall conduct PQDR investigations for a period of two years after the last fuel system is shipped to the Customer. All PQDRs

|                           |  |                      |
|---------------------------|--|----------------------|
| <b>CONTINUATION SHEET</b> | <b>Reference No. of Document Being Continued</b> | <b>Page 18 of 20</b> |
|                           | PIIN/SIIN W56HZV-10-C-0409                       | MOD/AMD P00007       |

**Name of Offeror or Contractor:** GENERAL DYNAMICS LAND SYSTEMS INC.

will be submitted for response through the PCO or their authorized representative. The Contractor shall notify the Government within 5 days after receipt of each PQDR if an exhibit is required for failure analysis. The exhibit request shall include detailed instructions as to where the exhibit is to be sent along with a point of contact. Upon completion of the Contractor's investigation, a PQDR investigation report shall be prepared and provided (in Contractor format), outlining the results of the investigation, a summary of any failure analysis performed, and the proposed corrective action to PM-LAV, IAW CDRL A017. All PQDR corrective action responses shall be provided to the Government within the following timeframes:

- a. Cat I - 20 days w/o exhibit or 20 days after receipt of requested exhibit
- b. Cat II - - 30 days w/o exhibit or 30 days after receipt of requested exhibit

E.13.2. In the event that more time is required to complete a PQDR investigation, the Contractor may request from the PCO or their authorized representative that an extension be granted. This request shall include a complete summary of the work performed to date, justification for the requested extension, and the date when the final response will be provided.

E.14.1 CORRECTION OF DEFICIENCIES. The Contractor shall be responsible for the correction of all deficiencies identified during Government First Article and Follow-On Testing at no increase in cost/price. A deficiency is defined as a failure to meet the requirements of the Performance Specification. Correction of these deficiencies shall include: Preparation of the Engineering Change Proposal (ECP) after Government approval, including:

- a. Documentation changes/updates (ILS corrections, TDP updates, MIs, etc.) in accordance with the Configuration Management provisions in Section C;
- b. Acquisition, delivery, and installation of ECP retrofit onto all affected vehicles (either conditionally accepted or in-process prior to acceptance); and,
- c. Revision of upgrade, either conditionally accepted or in-process, to reflect the configuration changes effected by the ECP.

E.14.2 Government approval of a Correction of Deficiency (COD) ECP does not relieve the Contractor of the responsibility for meeting the requirements of this contract. The Government retains the right to retest the Contractors correction/ECP change to verify that it corrects the deficiency. If it is determined that the system is still deficient, the Contractor will be required to correct the deficiency in accordance with the requirements of this provision. The Contractors COD responsibility is not fulfilled until all test deficiencies are resolved to ensure compliance with the requirements of the Performance Specification.

\*\*\* END OF NARRATIVE E0001 \*\*\*

**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

**PIIN/SIIN** W56HZV-10-C-0409

**MOD/AMD** P00007

**Name of Offeror or Contractor:** GENERAL DYNAMICS LAND SYSTEMS INC.

SECTION G - CONTRACT ADMINISTRATION DATA

| LINE   | PRON/<br>AMS CD/<br>MIPR/<br>GFEBs ATA | OBLG<br>STAT | JO NO/<br>ACCT ASSIGN | ACRN  | PRIOR AMOUNT  | INCREASE/<br>DECREASE | CUMULATIVE<br>AMOUNT |
|--------|--|--------------|-----------------------|-------|---------------|-----------------------|----------------------|
| 0008AC | T121T2454K<br>M9545012MP22013          | 2            |                       | AE \$ | 0.00 \$       | 22,087.00 \$          | 22,087.00            |
| 0008AD | T121T2454K<br>M9545012MP22013          | 2            |                       | AE \$ | 0.00 \$       | 12,716.00 \$          | 12,716.00            |
| 0009AB | T192TR154K<br>M9545009MP92019          | 2            |                       | AA \$ | 431,250.00 \$ | -431,250.00 \$        | 0.00                 |
|        |  |              |                       |       | NET CHANGE    | \$ -396,447.00        |                      |

| ACRN  | ACCOUNTING CLASSIFICATION                    | INCREASE/<br>DECREASE     |
|-------|--|---------------------------|
| AA 17 | 9110920383106785400674432D2038B99MP92019215A | \$ -431,250.00            |
| AE 17 | 21109203831067854 0674432D2038192MP22013211C | \$ 34,803.00              |
|       |  | NET CHANGE \$ -396,447.00 |

|                       | PRIOR AMOUNT<br>OF AWARD | INCREASE/DECREASE<br>AMOUNT | CUMULATIVE<br>OBLIG AMT |
|-----------------------|--------------------------|-----------------------------|-------------------------|
| NET CHANGE FOR AWARD: | \$ 8,658,930.00          | \$ -396,447.00              | \$ 8,262,483.00         |

| LINE   | ACRN  | EDI/SFIS ACCOUNTING CLASSIFICATION                |                        |
|--------|-------|---|------------------------|
| 0008AC | AE 17 | 121411092038 31067854 067443 2D2038192MP22013211C | M9545012MP22013 067443 |
| 0008AD | AE 17 | 121411092038 31067854 067443 2D2038192MP22013211C | M9545012MP22013 067443 |
| 0009AB | AA 17 | 091111092038 310678540067443 2D2038B99MP92019215A | M9545009MP92019 067443 |

**CONTINUATION SHEET****Reference No. of Document Being Continued****Page 20 of 20****PIIN/SIIN** W56HZV-10-C-0409**MOD/AMD** P00007**Name of Offeror or Contractor:** GENERAL DYNAMICS LAND SYSTEMS INC.

## SECTION J - LIST OF ATTACHMENTS

| <u>List of</u><br><u>Addenda</u> | <u>Title</u>  | <u>Date</u> | <u>Number</u><br><u>of Pages</u> | <u>Transmitted By</u> |
|----------------------------------|---|-------------|----------------------------------|-----------------------|
| Exhibit A                        | CONTRACT DATA REQUIREMENTS LIST                     | 15-APR-2010 | 010                              | DATA                  |
| Attachment 0002                  | GOVERNMENT FURNISHED PROPERTY/INFORMATION/EQUIPMENT | 05-JUN-2013 | 001                              | DATA                  |



1. DATA ITEM NO. A003  
2. TITLE OF DATA ITEM: Request for Deviation (RFD)  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.)MEARS Format 5. CONTRACT REFERENCE: C.3.2  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: As req'd  
11.AS OF DATE: 12. DATE OF FIRST SUB: As req'd 13. DATE OF SUBS.SUB:

14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 1

16. REMARKS: MEARS text files shall be provided electronically. Any supporting documentation submitted as enclosures or figures to the MEARS text files shall be created in MS Word, MS Excel or CCITT Groups IV graphic files. Group IV files shall include 1840A CALS raster data file header. Graphic density for drawings shall be delivered as 600dpi.

17. PRICE GROUP:

G. PREPARED BY: I. APPROVED BY:  
H. DATE: J. DATE:

18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO B. EXHIBIT: C. CATEGORY:  
D. SYSTEM/ITEM: E. CONTRACT/PR NO.: F. CONTRACTOR:

1. DATA ITEM NO. A004  
2. TITLE OF DATA ITEM: Manufacturing Plan  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.)Contractor Format 5. CONTRACT REFERENCE: C.10  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11.AS OF DATE: 12. DATE OF FIRST SUB: 13. DATE OF SUBS.SUB:

14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 1

16. REMARKS: The contractor shall update the Manufacturing Plan that was submitted with the proposal, electronically to michael.b.davis128.civ@mail.mil. Submit updates as required.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:  
H. DATE: J. DATE:

A. CONTRACT LINE ITEM NO B. EXHIBIT: C. CATEGORY:  
D. SYSTEM/ITEM: E. CONTRACT/PR NO.: F. CONTRACTOR:

1. DATA ITEM NO. A005  
2. TITLE OF DATA ITEM: Safety Assessment Report (SAR)  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.)Contractor Format 5. CONTRACT REFERENCE: C.8.1  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11.AS OF DATE: 12. DATE OF FIRST SUB: 13. DATE OF SUBS.SUB:

14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL:1

16. REMARKS: The contractor shall submit the SAR electronically to michael.b.davis128.civ@mail.mil. Submit 120 DAC, update 30 days after any configuration change. The Contractor shall also notify the Government immediately by phone or email if new hazards or increased risk probability levels are identified during Government test.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:  
H. DATE: J. DATE:

A. CONTRACT LINE ITEM NO B. EXHIBIT: C. CATEGORY:  
D. SYSTEM/ITEM: E. CONTRACT/PR NO.: F. CONTRACTOR:

1. DATA ITEM NO. A006  
2. TITLE OF DATA ITEM: Health Hazard Analysis Report (HHAR)  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.) Contractor Format 5. CONTRACT REFERENCE: C.8.5  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11. AS OF DATE: 12. DATE OF FIRST SUB: 13. DATE OF SUBS.SUB:

14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 1

16. REMARKS: The contractor shall submit the HHAR electronically to michael.b.davis128.civ@mail.mil. Submit 120 DAC, update as required from design changes or any new information as change pages within 15 days after the event or discovery.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:  
H. DATE: J. DATE:

A. CONTRACT LINE ITEM NO B. EXHIBIT: C. CATEGORY:  
D. SYSTEM/ITEM: E. CONTRACT/PR NO.: F. CONTRACTOR:

1. DATA ITEM NO. A007  
2. TITLE OF DATA ITEM: Environmental Assessment  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.) Contractor Format 5. CONTRACT REFERENCE: C.8.11  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11. AS OF DATE: 12. DATE OF FIRST SUB: 13. DATE OF SUBS.SUB:

14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 1

16. REMARKS: The contractor shall submit an Environmental Assessment electronically to michael.b.davis128.civ@mail.mil. Submit 120 DAC. The Government will review and provide comments within 30 days. The Contractor shall submit a revised plan within 30 days after receipt of Government comments.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:  
H. DATE: J. DATE:



15. TOTAL:1

16. REMARKS: The contractor shall submit the Spare/Repair Parts List electronically to michael.b.davis128.civ@mail.mil. Submit 30 days prior to Provisioning Conference, update as required.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

G. PREPARED BY:  
H. DATE:

I. APPROVED BY:  
J. DATE:

A. CONTRACT LINE ITEM NO  
D. SYSTEM/ITEM:

B. EXHIBIT:  
E. CONTRACT/PR NO.:

C. CATEGORY:  
F. CONTRACTOR:

1. DATA ITEM NO. A012  
2. TITLE OF DATA ITEM: Acceptance Test Procedures (ATP)  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.)Contractor Format 5. CONTRACT REFERENCE: E.10  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11.AS OF DATE: 12. DATE OF FIRST SUB: 90 DAC 13. DATE OF SUBS.SUB: As Required

14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 4

16. REMARKS: The contractor shall submit ATP electronically to michael.b.davis128.civ@mail.mil 60 days prior to hardware delivery for Government review, comment and approval. Submit final ATP 30 days after receipt of Government comments.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

G. PREPARED BY:  
H. DATE:

I. APPROVED BY:  
J. DATE:

A. CONTRACT LINE ITEM NO  
D. SYSTEM/ITEM:

B. EXHIBIT:  
E. CONTRACT/PR NO.:

C. CATEGORY:  
F. CONTRACTOR:

1. DATA ITEM NO. A013  
2. TITLE OF DATA ITEM: Failure Analysis Corrective Action Response (FACAR)  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.)Contractor Format 5. CONTRACT REFERENCE:E.9.1.2  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11.AS OF DATE: 12. DATE OF FIRST SUB: As req'd 13. DATE OF SUBS.SUB:

14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 1

16. REMARKS: The contractor shall submit FACAR electronically to michael.b.davis128.civ@mail.mil. Submit interim FACAR within the following timeframes after receipt of each TIR: Critical - 48 hours, Major - 10 days, minor - 30 days. Update every 14 days thereafter with final FACAR due 30 days after receipt of TIR.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

G. PREPARED BY:  
H. DATE:

I. APPROVED BY:  
J. DATE:



14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 4

16. REMARKS: The contractor shall submit QDRR electronically to michael.b.davis128.civ@mail.mil within the following timeframes:  
Category I PQDR - within 20 days W/O exhibit or 20 days after receipt of exhibit; Category II PQDR - within 30 days W/O exhibit or 30 days after receipt of exhibit.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:  
H. DATE: J. DATE:

A. CONTRACT LINE ITEM NO B. EXHIBIT: C. CATEGORY:  
D. SYSTEM/ITEM: E. CONTRACT/PR NO.: F. CONTRACTOR:

1. DATA ITEM NO. A018  
2. TITLE OF DATA ITEM: First Production Inspection Report  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.)Contractor Format 5. CONTRACT REFERENCE: E.8.2.2  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11.AS OF DATE: 12. DATE OF FIRST SUB: As required 13. DATE OF SUBS.SUB: As required

14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 2

16. REMARKS: The contractor shall submit the First Production Inspection Report electronically to michael.b.davis128.civ@mail.mil 30 days after completion of FPI for Gov't review and approval. Gov't notification of conditional approval or disapproval submitted 20 calendar days after receipt of FPI report.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:  
H. DATE: J. DATE:

A. CONTRACT LINE ITEM NO B. EXHIBIT: C. CATEGORY:  
D. SYSTEM/ITEM: E. CONTRACT/PR NO.: F. CONTRACTOR:

1. DATA ITEM NO. A019  
2. TITLE OF DATA ITEM: Engineering Data for Provisioning (EDFP)  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.)Contractor Format 5. CONTRACT REFERENCE: C.5.7  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11.AS OF DATE: 12. DATE OF FIRST SUB: 13. DATE OF SUBS.SUB:

14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 1

16. REMARKS: The contractor shall submit EDFP electronically to michael.b.davis128.civ@mail.mil. Submit 30 days prior to Provisioning Conference.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:



3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.) Contractor Format 5. CONTRACT REFERENCE: E.10  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11. AS OF DATE: 12. DATE OF FIRST SUB: As required 13. DATE OF SUBS.SUB: As required  
14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 1  
16. REMARKS: The contractor shall submit a FIR for each fuel system that is delivered w/i 14 working days after government acceptance (DD 250) electronically to michael.b.davis128.civ@mail.mil.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:  
H. DATE: J. DATE:

A. CONTRACT LINE ITEM NO B. EXHIBIT: C. CATEGORY:  
D. SYSTEM/ITEM: E. CONTRACT/PR NO.: F. CONTRACTOR:

1. DATA ITEM NO. A023  
2. TITLE OF DATA ITEM: Modification Instruction (MI)  
3. SUBTITLE:  
4. AUTHORITY (Dt of Acq Document No.) 5. CONTRACT REFERENCE: C.5.12  
6. REQUIRING OFFICE: PM-LAV  
7. DD250 REQ: No 8. APP CODE: 9. DIST. STATEMENT REQUIRED: 10. FREQUENCY: See Blk 16  
11. AS OF DATE: 12. DATE OF FIRST SUB: 21 Days after AOC 13. DATE OF SUBS.SUB: As required  
14. DISTRIBUTION A. ADDRESSEES: michael.b.davis128.civ@mail.mil B. COPIES DRAFT FINAL 1  
15. TOTAL: 1  
16. REMARKS: The contractor shall submit the draft MI electronically to michael.b.davis128.civ@mail.mil 21 days after the award of Contract Modification P00007, and the final 21 days after completion of the verification at APG.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:  
H. DATE: J. DATE:

Government Furnished Property/Equipment/Information

The Government will provide the following GFI:

Interactive Electronic Technical Manuals (IETMs) (PDF version)

Data templates (MI, LTI, LI)

Modification Instructions

List of LAVs by variant and variation that require tech pub data

Word files of TM paragraphs requiring changes for fuel system

Graphic Naming Convention

List of LAV Tools

USMC Maintenance Concept

Marine Corp Interactive Computer Aided System (ICAPS) software

MEARS access/training

MIL-STD38784 Standard Practice for Manuals, Technical: General Style and Format Requirements DOD Pub Styling Format

SG-1A U.S. Marine Corps Style Guide

Systems Approach to Training (SAT) Manual

TEMP Annex (draft) dated May 2013

The Government will provide the following GFP:

Light Armored Vehicle, Mission Role Variant, S/N TBD