

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code
Firm Fixed Price

Page 1 Of 8

2. Amendment/Modification No.

P00011

3. Effective Date

2014MAR14

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)

NO CHANGE TO OBLIGATION DATA

**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.

15A. Name And Title Of Signer (Type or print)		16A. Name And Title Of Contracting Officer (Type or print)	
		THOMAS K. SARGEE THOMAS.SARGEE@US.ARMY.MIL (586)282-9163	
15B. Contractor/Offeror	15C. Date Signed	16B. United States Of America	16C. Date Signed
_____ (Signature of person authorized to sign)		By _____ /SIGNED/ (Signature of Contracting Officer)	2014MAR14

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 2 of 8
	PIIN/SIIN W56HZV-10-C-0409	MOD/AMD P00011	
Name of Offeror or Contractor: 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 ***

Modification P00011

1. The purpose of this modification is to change the following language in the Scope of Work.

Section C.5.12 Modification Instructions

From:

"The MI will be validated and verified (val/ver) at Albany, GA testing facility, (exact address to be determined), 21 days after award of Contract Modification P00007."

To:

"The MI will be validated and verified (val/ver) at Albany, GA testing facility. The val/ver will be held no earlier than 8 May 2014, and no later than 8 July 2014. The exact dates and location of the val/ver will be mutually established by the Government and the Contractor"

2. As a result of this action the total amount of this contract is neither increased nor decreased.

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

*** END OF NARRATIVE A0011 ***

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 3 of 8**

PIIN/SIIN W56HZV-10-C-0409

MOD/AMD P00011

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.

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 4 of 8**

PIIN/SIIN W56HZV-10-C-0409

MOD/AMD P00011

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

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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 5 of 8
	PIIN/SIIN W56HZV-10-C-0409	MOD/AMD P00011

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

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. The val/ver will be held no earlier than 8 May 2014, and no later than 8 July 2014. The exact dates and location of the val/ver will be mutually established by the Government and the Contractor. 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):

CONTINUATION SHEET**Reference No. of Document Being Continued**

Page 6 of 8

PIIN/SIIN W56HZV-10-C-0409

MOD/AMD P00011

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

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

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

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

- 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

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

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.