

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. Contract ID Code  
Cost Plus Fixed Fee  
Page 1 Of 8

2. Amendment/Modification No. P00071  
3. Effective Date 2014FEB21  
4. Requisition/Purchase Req No. SEE SCHEDULE  
5. Project No. (If applicable)

6. Issued By Code W56HZV  
U.S. ARMY CONTRACTING COMMAND  
DANIEL J. GIBSON  
WARREN, MICHIGAN 48397-5000  
HTTP://CONTRACTING.TACOM.ARMY.MIL  
EMAIL: DANIEL.J.GIBSON2@US.ARMY.MIL  
7. Administered By (If other than Item 6) Code S2305A  
DCMA DETROIT  
35803 MOUND ROAD  
STERLING HEIGHTS MI 48310

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-13-D-0008  
10B. Dated (See Item 13)  
2012OCT30  
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: FAR 43.103(a)  
 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)  
15B. Contractor/Offeror  
(Signature of person authorized to sign)  
15C. Date Signed  
16A. Name And Title Of Contracting Officer (Type or print)  
ALEXANDRIA J.M. WENGROWSKI  
A.WENGROWSKI@US.ARMY.MIL (586)282-7056  
16B. United States Of America  
By \_\_\_\_\_ /SIGNED/  
(Signature of Contracting Officer)  
16C. Date Signed  
2014FEB21

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>	<b>Page 2 of 8</b>
	PIIN/SIIN W56HZV-13-D-0008      MOD/AMD P00071	
<b>Name of Offeror or Contractor:</b> GENERAL DYNAMICS LAND SYSTEMS INC.		

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: DANIEL J. GIBSON  
 Buyer Office Symbol/Telephone Number: CCTA-HBF-M/(586)282-3543  
 Type of Contract: Cost Plus Fixed Fee  
 Kind of Contract: Service Contracts  
 Type of Business: Large Business Performing in U.S.  
 Surveillance Criticality Designator: C  
 Contract Expiration Date: 2015OCT25

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

Contract: W56HZV-13-D-0008  
 Modification: P00071  
 Amount of this Action: \$0

1. Modification P00071 is being issued bilaterally under requirements contract W56HZV-13-D-0008.
2. The purpose of this modification is to:
  - a) Update the SIL base scope of work language in section C.5 of contract W56HZV-13-D-0008.
  - b) Establish CLIN 0232 in the amount of \$2,586,624 for ordering year two, effective from 01 March 2014 through 28 February 2015. This figure is inclusive of estimated labor, estimated material, cost of money, and fee. CLIN 0232 and all future sub-CLINs are cost-plus-fixed-fee - term.
  - c) Establish CLIN 0233 in the amount of \$2,613,837 for ordering year three, effective from 01 March 2015 through 29 February 2016. This figure is inclusive of estimated labor, estimated material, cost of money, and fee. CLIN 0233 and all future sub-CLINs are cost-plus-fixed-fee - term.
  - d) Establish CDRLs J001, J006-J009 and attachments 0054-0063 in section J of this contract.
  - e) Update and establish CDRLs J002-J005 in section J of this contract.
3. As a result of this modification, the total obligated amount under this contract is unchanged.
4. Except as specified above, all other terms and conditions remain the same.

\*\*\* END OF NARRATIVE A0071 \*\*\*

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

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0232	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>SIL 2ND ORDERING PERIOD - CPFF</u></p> <p>CLIN 0232 provides for Labor and Material for SIL as identified in SOW C.5.1 through C.5.17.3.</p> <p>CLIN 0232 represents contract year two from 01 March 2014 through 28 February 2015.</p> <p>Estimated Cost: \$2,371,068                      Cost of Money: \$4,088  <u>Fixed Fee: \$207,468</u>                      Total Cost: \$2,582,624</p> <p>The SubCLIN will be established at the time of Delivery Order award.</p> <p>The negotiated fixed fee amount of 8.75% shall be applied to the estimated cost funded in the delivery order.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p>				
0233	<p><u>SIL 3RD ORDERING YEAR</u></p> <p>CLIN 0233 provides for Labor and Material for SIL as identified in SOW C.5.1 through C.5.17.3.</p> <p>CLIN 0233 represents contract year two from 01 March 2015 through 29 February 2016.</p> <p>Estimated Cost: \$2,399,985                      Cost of Money: \$3,853  <u>Fixed Fee: \$209,999</u>                      Total Cost: \$2,613,837</p> <p>The SubCLIN will be established at the time of Delivery Order award.</p> <p>The negotiated fixed fee amount of 8.75% shall be applied to the estimated cost funded in the delivery order.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u></p>				

**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

**Page 4 of 8**

**PIIN/SIN** W56HZV-13-D-0008

**MOD/AMD** P00071

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

<b>ITEM NO</b>	<b>SUPPLIES/SERVICES</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
	INSPECTION: Origin      ACCEPTANCE: Origin				

**CONTINUATION SHEET****Reference No. of Document Being Continued****Page 5 of 8**

PIIN/SIIN W56HZV-13-D-0008

MOD/AMD P00071

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

## SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

GotcC.5 Stryker Systems Integration Laboratory (SIL)

Contract Year Two Period of Performance: 01 March 2014 through 28 February 2015.

Contract Year Three Period of Performance: 01 March 2015 through 29 February 2016.

C.5.1 Introduction. The contractor shall maintain the Stryker SIL capability to conduct development and integration, requirements validation, system verification, sustainment and technology insertion. The SIL shall be a key element to the development and life-cycle sustainment of the Stryker Family of Vehicles (FoV), and shall support a continuous process improvement strategy that identifies SIL system and software defects.

C.5.2 Common Scope. General Requirements for all SIL benches, carts and labs as identified below. Verification test procedures shall be conducted per the maintenance frequency schedule below. Resultant performance issues shall be documented in the STR database and prioritized supportive of operational availability requirements.

BENCH	FREQUENCY
1. MGS Subsystem Bench	Monthly
2a. Common Chassis Subsystem Cart 1.	Monthly
2b. Common Chassis Subsystem Cart 2	Monthly
3. Software Development Cart	Monthly
4. Ammo Handling Subsystem Lab	Quarterly
5. Embedded Training Subsystem Bench	Monthly
6. Remote Weapon Station Subsystem Bench	Quarterly
7. C4 Subsystem Cart encompasses ICV, FSV, ESV, FS3 and RV Subsys Bench 1.	Quarterly
8. NBCRV Subsystem Bench	Weekly
9. ATGM Subsystem Bench	Monthly

C 5.2.2.1 PM-SBCT funded projects requiring SIL utilization shall be responsible for material and repair cost associated with failures resultant from SIL use. The contractor shall perform a verification test prior to and after project use on SIL benches, vehicles, and carts to support project usage. Issues identified prior to project use shall be documented in the STR database and resolved as a normal SIL maintenance action. Issues identified resultant to project use shall be documented in the STR database and resolved through project specific funding. STRs will be worked in a prioritized manner. Only STRs that are catastrophic shall be resolved when they are discovered.

Catastrophic defined as cascading LRU failure deadlining the bench and stopping ongoing testing with no work around for test completion.

Critical defined as LRU failure with a work around. LRU failure has occurred, but there is a work possible around.  
Marginal Bench enhancements

C.5.2.1 Each SIL bench, cart and lab shall include all necessary variant unique Line Replaceable Units (LRUs), cables, emulators or simulators, and instruments required to provide complete test, and integration capabilities. Each individual bench shall be designed to replicate the subsystem performance of each variant production vehicles configuration to include the performance specification found as attachment 05 of this contract. The contractor shall maintain all documents and hardware developed for the SIL to support the existing SIL asset fielded and produced configurations.

C.5.2.2 Use of production cables to connect bench components shall be maximized except for where modifications are required for lab layout and breakouts. Emulators shall be used where necessary to emulate certain system functionality such as interfaces and loads. Automated tests are the preferred method for conducting testing with manual tests kept to a minimum.

C.5.3 SIL Configuration Management. The contractor shall provide annual reports regarding the configuration of the benches at the time of CDRL J007 submission. Upon Government direction, via bilateral contract modification, the contractor shall apply any updates to the SIL benches, and all applicable documentation as changes are identified. Developmental activities are not covered under the SIL scope of work.

C.5.4 Stryker Family of Vehicles (FoV) Test Procedures. All benches, carts and labs that are in extended maintenance mode the confidence test procedure updating the benches, carts and labs shall be completed at the next scheduled maintenance cycle.

C.5.4.2 SIL System and Subsystem Verification Test Procedures. The contractors SIL system and subsystem verification test procedures shall be updated as changes occur to the base SIL requirements to verify and validate subsystem bench designs are simulating, functioning, and operating in accordance with section C.5.3 Configuration Management and CDRL J008. The Contracting Officer Representative (COR) will approve the test procedures. All test procedures, to include updates, shall be standardized, maintain revision and change histories and include requirements traceability matrices or equivalent to map test cases to requirements. Verification test procedures shall be conducted per the maintenance frequency schedule in accordance with section C.5.2.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>	<b>Page 6 of 8</b>
	PIIN/SIIN W56HZV-13-D-0008	MOD/AMD P00071
<b>Name of Offeror or Contractor:</b> GENERAL DYNAMICS LAND SYSTEMS INC.		

C.5.5 SIL Drawings. The contractors Level II SIL drawings shall be updated as changes occur depicting the designs for the SIL benches, carts and labs to the detail necessary for the contractor to build and run in accordance with CDRL J001. The contractor shall provide documentation for all the hardware and software subsystems specifically built for the SIL. The contractor shall maintain document revision, change control, and revision listing of all appropriate source documents.

C.5.6 Contractor SIL Peer Reviews. When a bench, cart or lab design modification has been completed the contractor shall notify the COR of all peer reviews so that the Government may attend. The contractor shall provide written notice five (5) business days prior to the review. The contractor shall provide the necessary documentation required for review based on the reason of the meeting in accordance with CDRL J002. The contractor shall record and submit the meeting minutes from each SIL Peer Review to the Government in accordance with CDRL J003.

C.5.7 SIL Status Meetings. The contractor shall coordinate and conduct Bi-monthly status meetings on a mutually agreed to date and time with the Government. The meetings will be conducted as mutually agreed to by the contractor and Government. The contractor shall provide the Monthly Status Review Last accounting month / EV Status Review sheet of the briefing package on a monthly period in the same format and data as provided in performance period one of this contract. The contractor shall record and submit the meeting minutes from each SIL status meeting to the Government in accordance with CDRL J003.

C.5.8 Process Improvement Plan. The contractor shall document and implement a process improvement plan that focuses on incremental changes and solutions to eradicate or cut down on defects, cycle times and costs. The plan shall be documented and delivered to the Government in accordance with CDRL J004.

C.5.9 SIL Data Collection. The contractor shall collect and report SIL benches and lab utilization data on a monthly basis with a 3 month projection of utilization in accordance with CDRL J005.

C.5.10 SIL Property Management. All Stryker SIL assets procured and developed under this contract shall reside within the contractors facilities. The contractor shall notify the COR via email with a minimum twenty-four (24) hour advance notice if assets are to be moved from one lab to another within the SIL or assets are added to the SIL. The contractor shall notify the Government if hardware is removed from the SIL for reasons beyond the control of the Stryker program. Stryker SIL assets may be shipped to other locations only with the prior written approval of the Procuring Contracting Officer (PCO). The contractor shall ensure the equipment is working before and after movement to its new location. The contractor shall be responsible for repair and replacement of any broken equipment with like equipment. The contractor shall be responsible for the receipt, storage, and maintaining of the SIL property, to include conducting annual property inventory. The contractor shall provide an annual inventory of SIL assets report in accordance with CDRL J006.

C.5.11 Disposal of Government Furnished Hardware, Equipment and Material

C.5.11.1 The contractor shall provide a written request to contracting officer and notification of PCARs submittal for handling instructions for all residual Government Furnished Equipment (GFE) or Government-owned hardware. Upon receipt of contractor request, the Government shall provide direction to either utilize hardware for future projects, return components to Government, or to dispose of property in accordance with established guidelines.

C.5.11.2 Mandatory replacement parts with a recoverability code of FO or "Z" shall be discarded in accordance with Federal, State, and Local policies without Government disposition instructions. Hazardous materials will be disposed of utilizing contractor procedures with related costs to be charged to the contract.

C.5.12 SIL Vehicle Maintenance

C.5.12.1 The contractor shall manage and maintain the Stryker facility vehicles listed in C.5.13, at a sufficient capability to support the SIL test efforts. Such maintenance shall consist of periodic and scheduled maintenance in accordance with the vehicle technical manual, repairs and replacement of parts for the SIL vehicle. The contractor is authorized to acquire spare parts as needed only after coordination and approval of the PCO. Periodic Preventive Maintenance Checks and Services (PMCS) shall be performed as determined by the specific technical manual for the component, part and pieces. The contractor records of vehicle maintenance and utilization, including a 3 month projection, shall be provided in accordance with CDRL J003.

C.5.12.2 The contractor shall maintain configuration of the vehicle through tracking and control of all components on the vehicles. Additionally, the contractor shall establish a permanent record of serialized components. Contractor records of vehicle component control shall be provided in accordance with CDRL J009. The contractor shall notify the Government if during the period of performance of the Stryker SIL, it is found that the variant production vehicle configuration is different than the Stryker facility vehicles. For the MGS vehicle 002 and the CV, material will be provided as GFE excluding material required to perform Annual and Semi- Annual maintenance.

C.5.13 Government Furnished Equipment (GFE). The Government will provide the following GFE in accordance with attachment GFX List:

1. The Government shall provide any GFE that cannot be obtained through the Logistics Support (LS) contract.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>	<b>Page 7 of 8</b>
	PIIN/SIIN W56HZV-13-D-0008 MOD/AMD P00071	
<b>Name of Offeror or Contractor:</b> GENERAL DYNAMICS LAND SYSTEMS INC.		

- 2. Upgraded GFE as directed by HQDA or the TRADOC Capabilities Manager Stryker.
  - 3. Fielded Survivability Kits.
  - 4. Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) equipment for Stryker SIL Benches IAW the latest fielded configuration.
  - 5. CV Serial # CV005, MGS Serial # MGS002.
- C.5.14 The contractor can draw from available LRU's under the logistics support delivery order, without payback, with PCO approval. LRUs being replaced must be turned in for repair at the direction of the PCO
- C.5.15 Specialty Labs and Equipment. The contractor shall maintain and sustain the following laboratories and equipment to an operational capability, operational capability is defined as the ability of a piece of equipment to function as designed under the conditions it was designed for as intended by the equipments operation instructions without failure, faults, and restarting or resetting controls to make the equipment function as intended.
- a. Airflow and Thermal Analysis (AFTA) Lab
  - b. Automotive Climate Control (ACC) Lab
  - c. ECS Calorimeter Lab
- C 5.15.1 The SIL program shall on be responsible for repairs to GFE equipment in the Airflow and Thermal Analysis (AFTA) lab.
- C.5.16 Use of the SIL. For Non-Government program activities, the contractor shall notify the PCO and receive written authorization prior to use of any SIL assets located at the contractors facility. The contractor shall be responsible for all cost associated with Non-Government program use of SIL.
- C.5.17 Performance Standards
- C.5.17.1 CDRL Reports - The contractor shall submit all SIL Deliverables in accordance with the CDRL.  
Objective: CDRL submission  
Performance Indicator: Meet CDRL submission date and include acceptable CDRL data.  
Performance Threshold: 100% compliance  
Method of Surveillance: 100% inspection/Customer Complaint
- C.5.17.2 SIL Operational up-time. The contractor shall ensure the SIL benches have an operational up-time of 80%. The COR will provide surveillance to determine the accessibility of the SIL.
- C.5.17.3 Contractor Performance Assessment Report (CDRL). The contractors performance will be documented by the COR and recorded in the Contractor Performance Assessment Report (CPAR).

\*\*\* END OF NARRATIVE C0005 \*\*\*

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

PIIN/SIIN W56HZV-13-D-0008

MOD/AMD P00071

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

## SECTION J - LIST OF ATTACHMENTS

<u>List of Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number of Pages</u>	<u>Transmitted By</u>
Exhibit BM	CDRL J001 SIL LEVEL II DRAWINGS	06-JUN-2012	001	EMAIL
Exhibit BN	CDRL J002 SIL PEER REVIEW DOCUMENTATION	21-JAN-2014	002	EMAIL
Exhibit BO	CDRL J003 SIL STATUS MEETING MINUTES	21-JAN-2014	002	EMAIL
Exhibit BP	CDRL J004 SIL PROCESS IMPROVEMENT PLAN	21-JAN-2014	002	EMAIL
Exhibit BQ	CDRL J005 SIL DATA COLLECTION	21-JAN-2014	002	EMAIL
Exhibit BR	CDRL J006 ANNUAL INVENTORY OF SIL ASSETS	06-JUN-2012	001	EMAIL
Exhibit BS	CDRL J007 CONFIGURATION MANAGEMENT OF SIL	06-JUN-2012	001	EMAIL
Exhibit BT	CDRL J008 SIL TEST PROCEDURES	06-JUN-2012	001	EMAIL
Exhibit FA	CDRL J009 QUARTERLY INVENTORY OF SYSTEMS INTEGRATION LAB (SIL) ASSETS	19-FEB-2013	001	EMAIL
Attachment 0054	SIL VEHICLE ASSET CDRL J013	27-FEB-2013	001	EMAIL
Attachment 0055	STRYKER GENERAL SIL GOVT ASSETS J013	27-FEB-2013	001	EMAIL
Attachment 0056	STRYKER SIL ACC&ECS J013	27-FEB-2013	001	EMAIL
Attachment 0057	STRYKER SIL CBRN GOVT ASSETS J013	27-FEB-2013	001	EMAIL
Attachment 0058	STRYKER SIL HPL GOVT ASSET J013	27-FEB-2013	001	EMAIL
Attachment 0059	STRYKER SIL ATV LAB GOVT ASSETS J013	27-FEB-2013	001	EMAIL
Attachment 0060	V2 SIL VEHICLE ASSET CDRL J013	27-FEB-2013	001	EMAIL
Attachment 0061	V2 SIL VEHICLE ASSET CDRL2 J013	27-FEB-2013	001	EMAIL
Attachment 0062	AHS SIL GOV ASSETS J013	27-FEB-2013	001	EMAIL
Attachment 0063	ATGM SIL GOVT ASSETS J013	27-FEB-2012	001	EMAIL