

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code **Page 1 Of 26**
 Cost Plus Incentive Fee (Cost Based)

2. Amendment/Modification No. P00001	3. Effective Date 2014JAN21	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By Code W56HZV U.S. ARMY CONTRACTING COMMAND REBECCA K BERNOCK WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: REBECCA.K.BERNOCK@US.ARMY.MIL	7. Administered By (If other than Item 6) Code S2305A DCMA DETROIT 35803 MOUND ROAD STERLING HEIGHTS MI 48310
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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	<input type="checkbox"/>	9A. Amendment Of Solicitation No.
	<input type="checkbox"/>	9B. Dated (See Item 11)
	<input checked="" type="checkbox"/>	10A. Modification Of Contract/Order No. W56HZV-14-C-B019
	<input type="checkbox"/>	10B. Dated (See Item 13) 2013NOV25
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.

<input type="checkbox"/>	A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A.	The Changes Set Forth In Item 14 Are Made In
<input type="checkbox"/>	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).	
<input checked="" type="checkbox"/>	C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:	FAR 43.103(a)
<input type="checkbox"/>	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) MARY HERNANDEZ MARY.P.HERNANDEZ@US.ARMY.MIL (586)282-7021	
15B. Contractor/Offeror (Signature of person authorized to sign)	15C. Date Signed	16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)	16C. Date Signed 2014JAN21

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MOD/AMD P00001

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

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: REBECCA K BERNOCK
Buyer Office Symbol/Telephone Number: CCTA-AIL-B/(586)282-7056
Type of Contract: Cost Plus Incentive Fee (Cost Based)
Kind of Contract: Research and Development Contracts
Type of Business: Large Business Performing in U.S.
Surveillance Criticality Designator: C
Weapon System: No Identified Army Weapons Systems

*** End of Narrative A0000 ***

1. This Modification P00001 to Contract W56HZV-14-C-B019 is a bilateral action.
2. The purpose of this modification is to do the following:
 - a) Change block F of all DD Forms 1423 from "GD GDLS Defense Group" to "GDLS" and block E of all DD Forms 1423 from RFP number W56HZV-13-B019 to Contract W56HZV-14-C-B019.
 - b) Remove the language "IMP element" from Block 16 of CDRL A001-Integrated Program Management Report(IPMR).
 - c) Revise Scope of Work, Section C.1.3-Contact Data Requirements.
 - d) Add Section C.1.4-Contract Data Requirements Delivery to the Scope of Work.
 - e) Update Attachment 0010-DVH SPS.
 - f) Revise Scope of Work, paragraphs C.7.2 and C.7.2.1.3(b).
 - g) Change the billing instructions in Section B under CLINS 0001AB and 0001AC.
3. Resultant from this Modification P00001:
 - a) Block F of all DD Forms 1423 read "GDLS" and block E reads "W56HZV-14-C-B019.
 - b) The language "IMP element" is removed from Block 16 of CDRL A001-IPMR.
 - c) Scope of Work, Section C.1.3-Contact Data Requirements has been revised as follows:

CHANGED FROM: C.1.3. Contract Data Requirements. Data shall be delivered in accordance with the DD1423, Contract Data Requirements Lists (CDRLs), as set forth in Attachment 0001 and as called out in this SOW. Should any data deliverable require revision after original delivery, the required revision shall be delivered no later than 30 days after the request unless the Government grants relief in writing to allow another delivery date. Except for those items that specifically require hard copy submission, all data specified in this contract shall be provided to the Government electronically.

CHANGED TO: C.1.3. Contract Data Requirements. Data shall be delivered in accordance with the DD1423, Contract Data Requirements Lists (CDRLs), as set forth in Attachment 0001 and as called out in this SOW. Should any data deliverable require revision after original delivery, the Government shall notify the contractor no later than 30 days after receipt of the original submission and the required revision shall be delivered no later than 30 days after the request unless the Government grants relief in writing to allow another delivery date. Except for those items that specifically require hard copy submission, all data specified in this contract shall be provided to the Government electronically.
 - d) The following Section C.1.4-Contract Data Requirements Delivery has been added to the Scope of Work.

C.1.4-Contract Data Requirements Delivery. Data shall be delivered in accordance with the DD1423, Contract Data Requirements Lists (CDRLs), as set forth in Attachment 0001 and as called out in this SOW. Should any data deliverable be due on a non week day or holiday, the contractor shall be required to deliver the CDRL on the next work day unless otherwise specifically stated in the DD1423.

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

e) Attachment 0010- DVH SPS has been updated to reflect the correct attachment number, date, and Stryker FOV Performance Specification No. within the actual document and to add Appendix 1: Pre-DD 250 GFM List and Appendix 2: Full Combat Weight Vehicle Load List.

f) Scope of Work, Section C.7.2-Specific Scope has been revised as follows:

CHANGED FROM: C.7.2. Specific Scope. The contractor shall execute Stryker ECP Upgrade activities for the four key vehicle improvements and corresponding technologies listed below. Whenever feasible, the contractor shall use previous Stryker and LAV subsystem and component designs to mitigate cost and risk to the Stryker ECP Upgrade. Unless otherwise stated within this SOW, vehicle performance requirements can be found in Stryker SPS(s) 2000.1 through 2000.11 inclusive (Attachment 0010). In the event that the key technologies inhibit the system's ability to meet the Stryker SPS, the contractor shall notify the Government, and a mutually agreed upon path forward shall be developed for final Government approval.

CHANGED TO: C.7.2. Specific Scope. The contractor shall execute Stryker ECP Upgrade activities for the four key vehicle improvements and corresponding technologies listed below. Whenever feasible, the contractor shall use previous Stryker and LAV subsystem and component designs to mitigate cost and risk to the Stryker ECP Upgrade. Unless otherwise stated within this SOW, vehicle performance requirements can be found in Attachment 0010-Stryker Double V-Hull(DVH)FoV Performance Specifications No. 2014.11-2014.20 inclusive (Attachment 0010). In the event that the key technologies inhibit the system's ability to meet the Stryker DVH SPS, the contractor shall notify the Government, and a mutually agreed upon path forward shall be developed for final Government approval.

Scope of Work, Section C.7.2.1.3(b) has been revised as follows:

CHANGED FROM: C.7.2.1.3 (b). The contractor shall integrate into the Stryker DVH vehicle the following suspension & driveline systems: GDLS 6.0 suspension & driveline. Passive spring and damper response tuned to the requirements within the current SPS, 2000.1, paragraph 3.1.1.5.9, at a vehicle weight of 60,000 lbs.395/85R20 tires.

CHANGED TO: C.7.2.1.3 (b). The contractor shall integrate into the Stryker DVH vehicle the following suspension & driveline systems: GDLS 6.0 suspension & driveline. Passive spring and damper response tuned to the requirements within the current DVH SPS, No. 2014.11-2014.20, para 3.1.1.6.5. at a vehicle weight of 60,000 lbs.395/85R20 tires.

e) The billing instructions in Section B, under CLIN 0001AB is revised as follows:

CHANGED FROM: The contractor shall exhaust FY13 funding under this CLIN 0001AB prior to invoicing FY14 funding under CLIN 0001AC.

CHANGED TO: The contractor shall use the FY13 funding under this CLIN 0001AB for material.

The billing instructions in Section B, under CLIN 0001AC is revised as follows:

CHANGED FROM: The contractor shall exhaust FY13 funding under CLIN 0001AB prior to invoicing FY14 funding under this CLIN 0001AC.

CHANGED TO: The contractor shall use the FY14 funding under this CLIN 0001AC for labor.

4. As a result of this Modification P00001, the obligated amount of Contract W56HZV-14-C-B019 is neither increased nor decreased.

5. Except as specifically stated above, all other terms and conditions of the Contract remain unchanged and in full force and effect.

*** END OF NARRATIVE A0002 ***

CONTINUATION SHEET

Reference No. of Document Being Continued
 PIIN/SIIN W56HZV-14-C-B019 MOD/AMD P00001

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

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AB	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p>This SubCLIN 0001AB funds the effort identified under SubCLIN 0001AA.</p> <p>(End of narrative A001)</p> <p><u>INCREMENTAL FUNDING</u></p> <p>SERVICE REQUESTED: STRYKER ECP PHASE II DVH CLIN CONTRACT TYPE: Cost Plus Incentive Fee (Cost Based) PRON: X13RD028X1 PRON AMD: 01 ACRN: AA</p> <p>The contractor shall use the FY13 funding under this CLIN 0001AB for material.</p> <p>*CLIN revised by Modification P00001.</p> <p>(End of narrative B001)</p> <p>Target Total Cost:\$11,771,610 COM: \$ 16,800 <u>Target Fee: \$ 1,206,590</u> Total Target: \$12,995,000</p> <p>Target Total Fee 10.25%</p> <p>Maximum Fee: 12.75%</p> <p>Minimum Fee: 5%</p> <p>Share Ratios: Underruns: 60/40 Overruns: 85/15</p> <p>(End of narrative B002)</p> <p>The contractor shall furnish all the supplies and services to accomplish the tasks specified in Section C: Description/Specifications/Work Statement,excluding Section C.9-CONTRACTOR TEST SUPPORT.</p> <p>(End of narrative C001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p>This SubCLIN 0001AC funds the effort identified under SubCLIN 0001AA.</p> <p>(End of narrative A001)</p>	1	LO		\$ 12,995,000.00

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

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AC	<p><u>INCREMENTAL FUNDING</u></p> <p>SERVICE REQUESTED: STRYKER ECP PHASE II DVH CLIN CONTRACT TYPE: Cost Plus Incentive Fee (Cost Based) PRON: X14RD002X1 PRON AMD: 01 ACRN: AB</p> <p>The contractor shall use the FY14 funding under this CLIN 0001AC for labor.</p> <p>*CLIN revised by Modification P00001.</p> <p>(End of narrative B001)</p> <p>Target Total Cost:\$ 9,096,616 COM: \$ 12,981 <u>Target Fee:</u> \$ 932,403 Total Target: \$10,042,000</p> <p>Target Total Fee: 10.25%</p> <p>Maximum Fee: 12.75%</p> <p>Minimum Fee: 5%</p> <p>Share Ratios: Underruns: 60/40 Overruns: 85/15</p> <p>(End of narrative B002)</p> <p>The contractor shall furnish all the supplies and services to accomplish the tasks specified in Section C: Description/Specifications/Work Statement,excluding Section C.9-CONTRACTOR TEST SUPPORT.</p> <p>(End of narrative C001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p>	1	LO		\$ 10,042,000.00

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

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

CONTENTS

C.1 GENERAL

- C.1.1 SCOPE
- C.1.2 CONTRACTOR RESPONSIBILITIES
- C.1.3 CONTRACT DATA REQUIREMENTS
- C.1.4 CONTRACT DATA REQUIREMENTS DELIVERY

C.2 PROGRAM SECURITY AND PROTECTION

C.3 BUSINESS MANAGEMENT

- C.3.1 EARNED VALUE MANAGEMENT SYSTEM (EVMS)
 - C.3.1.1 PERFORMANCE MEASUREMENT BASELINE (PMB)
 - C.3.1.1.1 FORMAL REPROGRAMMING
 - C.3.1.1.2 REPLANNING AND SINGLE POINT ADJUSTMENTS
 - C.3.1.2 INTEGRATED BASELINE REVIEWS (IBRs)
 - C.3.1.3 INTEGRATED PROGRAM MANAGEMENT REPORT (IPMR)
 - C.3.1.4 SUB-CONTRACT IMPLEMENTATION
 - C.3.1.5 INTEGRATED MASTER SCHEDULE (IMS, IPMR FORMAT 6)
 - C.3.1.6 COST AND SOFTWARE REPORTING (CSDR)
 - C.3.1.6.1 CSDR SUB-CONTRACTOR FLOW-DOWN
 - C.3.1.6.2 RESOURCE DISTRIBUTION TABLE (RDT)
 - C.3.1.7 WORK BREAKDOWN STRUCTURE (WBS) INDEX AND WBS DICTIONARY
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C.4 ECP CONFIGURATION MANAGEMENT (CM)

- C.4.1 CONFIGURATION MANAGEMENT PLAN (CMP)
 - C.4.1.1 CONFIGURATION IDENTIFICATION AND DOCUMENT CONTROL
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 - C.4.2.1 ECO PACKAGE COORDINATION
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C.5 HAZARDOUS MATERIAL

- C.5.1 HAZARDOUS MATERIALS
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- C.5.3 HAZARDOUS MATERIALS MANAGEMENT REPORT
- C.5.4 HAZARDOUS MATERIALS PARTS TRACKING PER PROTOTYPE VEHICLE
- C.5.5 SOLDER REQUIREMENT

C.6 SAFETY ENGINEERING AND HEALTH HAZARDS

- C.6.1 SAFETY ENGINEERING
 - C.6.1.1 SAFETY SUPPORT
- C.6.2 SAFETY ASSESSMENT REPORT(SAR)
- C.6.3 RADIOACTIVE MATERIALS
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C.7 DEVELOPMENT

- C.7.1.1 CONTRACTOR RESPONSIBILITIES
- C.7.1.2 SYSTEMS ENGINEERING
- C.7.1.3 DESIGN TO UNIT RETROFIT COST (DTURC)
- C.7.1.4 INFORMATION ASSURANCE (IA)
 - C.7.1.4.1 INFORMATION ASSURANCE (IA) ENGINEERING SUPPORT
 - C.7.1.4.2 INFORMATION ASSURANCE (IA) DESIGN REVIEW INFORMATION PACKAGE (DRIP)
- C.7.1.5 ENGINEERING AND MANUFACTURING DEVELOPMENT
 - C.7.1.5.1 TECHNOLOGY DEMONSTRATIONS
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 - C.7.1.5.1.2 DEMONSTRATIONS (CONTRACTOR TESTS)
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- C.7.1.6.1 COMMONALITY
- C.7.1.6.2 COMMONALITY PRIORITIZATION
- C.7.1.7 INTEGRATION AND TEST
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 - C.7.1.7.2 INTEGRATION TEST PLANS
 - C.7.1.7.3 PROTOTYPE BUILD
 - C.7.1.7.4 CONTRACTOR SYSTEMS LEVEL DEVELOPMENT TEST
 - C.7.1.7.5 INTERFACE CONTROL DOCUMENTS (ICDS) AND INTERFACE DESCRIPTION DOCUMENTS (IDDS)
 - C.7.1.7.6 ECP KIT DRAWINGS
- C.7.1.8 VEHICLE ELECTRONICS, VEHICLE NETWORK, AND SOFTWARE DEVELOPMENT AND PROCESSES
 - C.7.1.8.1 VEHICLE ELECTRONICS AND VEHICLE NETWORK DEVELOPMENT DOCUMENTATION
 - C.7.1.8.2 SOFTWARE DEVELOPMENT DOCUMENTATION
 - C.7.1.8.3 SOFTWARE RELEASE DOCUMENTATION
 - C.7.1.8.4 SOFTWARE DEVELOPMENT PROCESS
 - C.7.1.8.5 SOFTWARE QUALITY ASSURANCE PROCESS
 - C.7.1.8.6 SOFTWARE TRANSITION PROCESS
 - C.7.1.8.7 SOFTWARE METRICS
 - C.7.1.8.8 SOFTWARE SUPPORT
- C.7.1.9 STRUCTURAL ANALYSIS
- C.7.1.10 MODELING AND SIMULATION (M&S)
- C.7.1.11 SURVIVABILITY ANALYSIS AND VALIDATION
- C.7.1.12 THERMAL ANALYSIS AND VALIDATION
- C.7.1.13 REVIEWS
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 - C.7.1.13.1.1 TECHNICAL REVIEWS
 - C.7.1.13.1.2 INTEGRATED PRODUCT PROCESS DEVELOPMENT (IPPD)
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 - C.7.1.13.1.2.2 RELIABILITY CONTRACTOR SUPPORT
- C.7.1.14 TECHNICAL PERFORMANCE PARAMETERS (TPPS)
- C.7.1.15 RELIABILITY REQUIREMENTS
 - C.7.1.15.1 RELIABILITY PROGRAM PLAN EXECUTION
 - C.7.1.15.2 RELIABILITY CASE REPORT
 - C.7.1.15.3 RELIABILITY ANALYSIS
 - C.7.1.15.4 FAILURE MODES AND MECHANISM
 - C.7.1.15.5 CLOSED-LOOP FAILURE-MODE APPROACH
- C.7.1.16 CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR (CBRN) SURVIVABILITY AND DECONTAMINATION COMPLIANCE REPORT
- C.7.1.17 SYSTEM INTEGRATION LABORATORIES(SIL)
 - C.7.1.17.1 ECP SIL CAPABILITY
 - C.7.1.17.2 UNIQUE SIL BENCHES
 - C.7.1.17.3 ECP STRYKER SIL MAINTENANCE
- C.7.2 SPECIFIC SCOPE
 - C.7.2.1 CRITICAL TECHNOLOGIES
 - C.7.2.1.1 MECHANICAL POWER UPGRADE
 - C.7.2.1.2 ELECTRICAL POWER UPGRADE
 - C.7.2.1.3 CHASSIS UPGRADE
 - C.7.2.1.4 IN-VEHICLE NETWORK (IVN)
 - C.7.2.1.5 GOVERNMENT FURNISHED EQUIPMENT (GFE)
 - C.7.2.1.6 INTERFACE TO EXISTING AND C4ISR KITS
 - C.7.2.1.6.1 VEHICLE FIT-UP
 - C.7.2.1.7 RISK MANAGEMENT
 - C.7.2.1.8 TRANSPORTABILITY ANALYSIS & REPORT
 - C.8 INTEGRATED LOGISTICS SUPPORT
- C.8.1 LEVEL OF REPAIR ANALYSIS(LORA)
- C.8.2 RELIABILITY CENTERED MAINTENANCE(RCM) ANALYSIS
- C.8.3 LMI/LSA DATABASE
- C.8.4 MAINTENANCE TASK ANALYSIS
- C.8.5 PROVISIONING
 - C.8.5.1 PROVISIONING CONFERENCES
 - C.8.5.2 PROVISIONING ALIGNMENT WITH TECHNICAL PUBLICATIONS DEVELOPMENT
 - C.8.5.3 ENGINEERING DATA FOR PROVISIONING(EDFP)
 - C.8.5.4 QUALITY OF LSA 036 REPORTS
- C.8.6 TECHNICAL PUBLICATIONS
 - C.8.6.1 DVH TECHNICAL PUBLICATIONS
 - C.8.6.2 INTERACTIVE ELECTRONIC TECHNICAL MANUALS (IETMS) AND PAPER OPERATOR MANUALS

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

- C.8.6.3 PUBLICATION HISTORY FILE
 - C.8.6.4 TECHNICAL MANUAL VALIDATION AND VERIFICATION
 - C.8.6.5 TECHNICAL PUBLICATION QUALITY ASSURANCE PLAN (TP QA)
 - C.8.6.6 EXTERNAL AGENCY TASKS REVIEW COMMENT INCORPORATION CYCLE TIME
 - C.8.6.7 REJECTED TASKS CYCLE TIME
 - C.8.6.8 TECHNICAL PUBLICATIONS SOURCE MATERIALS
 - C.8.7 BATTLE DAMAGE ASSESSMENT AND REPAIR (BDAR)TM
 - C.8.7.1 DEMIL INSTRUCTIONS
 - C.8.8 SCHEMATICS
 - C.8.9 SPECIAL TOOLS AND TEST EQUIPMENT (STTE)
 - C.8.9.1 SPECIAL TOOL RECORDS AND DOCUMENTATION UPDATES
 - C.8.9.2 BII AND AAL DRAWINGS
 - C.8.10 PACKAGING DATA DEVELOPMENT
 - C.8.10.1 LMI PACKAGING DATA
 - C.8.10.2 SPECIAL PACKAGING INSTRUCTIONS (SPI)
 - C.8.10.3 VALIDATION TESTING OF PACKAGING
 - C.8.10.4 EQUIPMENT PRESERVATION DATA SHEETS (EPDS)
 - C.8.11 REUSABLE CONTAINER ASSESSMENT
 - C.8.11.1 REUSABLE CONTAINERS FOR ECP UNIQUE ITEMS
 - C.8.11.2 REUSABLE CONTAINER SEARCHES
 - C.8.11.3 REUSABLE CONTAINER PROPOSAL
 - C.8.11.4 DEVELOPMENT AND VALIDATION
 - C.8.12 TRAINING PRODUCTS
 - C.8.12.1 INSTRUCTOR AND KEY PERSONNEL TRAINING (I&KPT)
 - C.8.12.2 I&KPT PROCEDURES, EQUIPMENT, SAFETY PRECAUTIONS,& PMCS TASKS
 - C.8.12.3 INSTRUCTOR REQUIREMENTS/QUALIFICATIONS
 - C.8.12.4 COURSE MATERIAL DEVELOPMENT
 - C.8.12.5 TRAINING TASK ANALYSIS
 - C.8.13 STRYKER TRAINING AIDS DEVICE SIMULATIONS AND SIMULATORS (TADSS)
 - C.8.14 MAINTENANCE OF ECP LOGISTICS VEHICLES
 - C.8.14.1 MAINTENANCE OF ECP PROTOTYPE /DEMO VEHICLES
 - C.8.15 ITEM UNIQUE IDENTIFICATION (IUID) MARKING
 - C.8.16 LMI REVIEWS
- C.9 CONTRACTOR TEST SUPPORT
- C.9.1 CONTRACTOR TECHNICAL TESTING
 - C.9.2 CONTRACTOR SUPPORT TO USG TESTING
 - C.9.2.1 DELTA KITS
 - C.9.3 SYSTEM SUPPORT PACKAGE LIST (SSPL)
 - C.9.4 OFFICE SPACE
 - C.9.5 POTENTIAL WARRANTY COVERAGE
 - C.9.6 TEST INCIDENT REPORTS(TIRS)
 - C.9.7 MONTHLY PERFORMANCE REPORT
 - C.9.8 CONFIGURATION MANAGEMENT OF PROTOTYPES
 - C.9.9 LIVE FIRE TESTING
 - C.9.10 PERFORMANCE STANDARDS
- C.10 STRYKER FOV - FABRICATION OF PROTOTYPES
- C.10.1 PRODUCIBILITY OF PROTOTYPES
 - C.10.1.1 PRODUCIBILIIY ANALYSES
 - C.10.1.2 GOVERNMENT PLANT FACILITIES/EQUIPMENT

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

ECP PHASE II SCOPE OF WORK

C.1. General.

C.1.1. Scope. This scope of work (SOW) consists of Engineering Design, Prototype Development, Logistics, Test and Evaluation support that shall be performed by the contractor during the Phase II ECP Upgrade Program.

C.1.2. The contractors responsibilities under Phase II of the ECP Upgrade Program shall be to restore lost platform performance through a limited set of engineering upgrades and ensure Stryker vehicles are able to accept the Army network. The technical enhancements to be performed by the contractor under the development effort include Improved Automotive Power Generation, Improved Electrical Power Generation, Improved In-Vehicle Network Capabilities and Increased Payload/Improved Mobility (Chassis Upgrades).

C.1.3. Contract Data Requirements. Data shall be delivered in accordance with the DD1423, Contract Data Requirements Lists (CDRLs), as set forth in Attachment 0001 and as called out in this SOW. Should any data deliverable require revision after original delivery, the Government shall notify the contractor no later than 30 days after receipt of the original submission and the required revision shall be delivered no later than 30 days after the request unless the Government grants relief in writing to allow another delivery date. Except for those items that specifically require hard copy submission, all data specified in this contract shall be provided to the Government electronically.

C.1.4. Contract Data Requirements Delivery. Data shall be delivered in accordance with the DD1423, Contract Data Requirements Lists (CDRLs), as set forth in Attachment 0001 and as called out in this SOW. Should any data deliverable be due on a non week day or holiday, the contractor shall be required to deliver the CDRL on the next work day unless otherwise specifically stated in the DD1423.

C.2. Program Security and Protection.

C.2.1. The contractor shall provide the security of classified and unclassified information, data, hardware and software generated for the program or provided to the program. Per Under Secretary of Defense for Acquisition, Technology and Logistics (USD AT&L) direction, the contractor shall comply with the security procedures and processes to satisfy the security requirements identified in DD Form 254, Attachment 0002. As stated in the DD 254, the Contractor shall complete OPSEC training and submit a report in accordance with CDRL A015.

The Contractor shall also follow the Governments OPSEC Plan, as well as annexes and updates, and the Stryker Family of Vehicles Program Protection Plan (PPP) dated 23 August 2012. Upon contractor request, the Stryker Security Manager will provide the OPSEC plan and PPP. The PPP is effective immediately and is mandatory for use by all program participants and field activities at all locations where Critical Program Information (CPI) is researched, manufactured, stored, processed or tested.

C.3. Business Management.

C.3.1. Earned Value Management System (EVMS). EVMS shall be in accordance with DFARS 252.234-7001 and 252.234-7002.

C.3.1.1. Performance Measurement Baseline (PMB). The contractor shall generate a time-phased budget baseline assigning all contract costs to their scope specific Work Breakdown Structure (WBS) elements no later than 45 days after authorization to proceed. The PMB shall be the basis for the Integrated Program Management Report (IPMR). Retroactive changes to the PMB are prohibited, except for the correction of errors and/or routine accounting adjustments.

C.3.1.1.1. Formal Reprogramming. When indicated by contract performance, the contractor shall submit a request for approval to initiate an over-target baseline (OTB) or over-target schedule (OTS) to the Procuring Contracting Officer (PCO). The content of the contractors reprogramming request shall be consistent with DFARS 252.234-7002(h). The contractors formal reprogramming request shall be submitted no later than 60 days prior to the contractors anticipated implementation date. The PCO will issue a letter no later than 30 days after receipt of the request stating whether it has been approved or denied.

C.3.1.1.2. Replanning and Single Point Adjustments (SPA). Replanning actions and SPAs shall not be used as a means to improve cost and/or schedule performance. The contractor shall submit a request for approval to the PCO to initiate any action that modifies the timing of milestones in the contractors Integrated Master Schedule (as reported in IPMR Format 6) or eliminates accrued cost and/or schedule variances. Replanning and SPA requests shall be submitted to the PCO no later than 60 days prior to the contractors anticipated implementation date. The PCO will issue a letter no later than 30 days after receipt of the request stating whether it has been approved or denied.

C.3.1.2. Integrated Baseline Reviews (IBRs). IBRs shall occur within 120 days of contract award, and subsequently following all major changes to the baseline.

C.3.1.3. Integrated Program Management Report (IPMR). The contractor shall prepare and electronically deliver all IPMR Formats in accordance with CDRL A001. IPMR Format 6 shall be applied separately where DFARS 252.234-7002 is not applicable. The Government and the contractor shall periodically review and adjust as necessary reporting levels and variance thresholds to ensure they continue to provide

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appropriate visibility without requiring excessive information. If there is a significant problem with respect to cost, schedule, or performance at a lower level, detailed reporting for that WBS element shall be required until the problem is resolved.

C.3.1.4. Sub-contract Implementation. DFARS Clauses 252.234-7001 and 252.234-7002 shall be flowed down to all subcontracts, regardless of tier, that have a total expected value \$20 million or greater. Flow-down of EVMS requirements to subcontracts of less than \$20 million is not required unless directed by the Government. The contractor shall be responsible for reviewing and assuring the validity of all subcontractors reporting through surveillance and other means.

C.3.1.5. Integrated Master Schedule (IMS, IPMR Format 6). The contractor shall use the IMS as a day-to-day execution tool, to assess progress in meeting contractual requirements and to provide realism to the contractors approach to executing the awarded effort within cost and schedule constraints. The IMS shall include the activities of EVMS qualifying subcontractors. The IMS shall be resource loaded. The contractor shall deliver the IMS, perform requisite analyses, report potential or existing problem areas, and recommend corrective actions to eliminate or reduce schedule impact in accordance with CDRL A001. The contractor shall maintain and update the IMS to reflect changes in detailed execution of activities or changes in schedule.

C.3.1.6. Cost and Software Data Reporting (CSDR). The contractor shall electronically produce and deliver Contractor Cost Data Reports (CCDR) in accordance with DoDM 5000.04-M-1 (CSDR Manual, November 2011) and CDRLs A002, A003, and A004.

C.3.1.6.1. CSDR Sub-contractor Flow-down. The contractor shall flow-down CSDR requirements to all subcontracts that have a total expected value of \$50 million or greater in accordance with DFARS 252.234-7004(b).

C.3.1.6.2. Resource Distribution Table (RDT). The RDT (Attachment 0003) shall be based on the work breakdown structures used in OSD-DDCA approved CSDR Contract Plans (Attachment 0004). The RDT shall identify the value of work assigned to subsidiaries and subcontractors. The contractor shall electronically produce and deliver an RDT in accordance with CDRL A005 whenever the Government adds funding to the contract.

C.3.1.7. Work Breakdown Structure (WBS) Index and WBS Dictionary. The WBS Index and WBS Dictionary shall be used for CSDR and EVM.

C.3.1.7.1. Cost and Software Data Reporting. The contractor shall maintain a product oriented WBS Index and WBS Dictionary in accordance with the OSD-DDCA approved CSDR Contract Plans, Attachment 0004, and CDRL A004.

C.3.1.7.2. Earned Value Management. The WBS for earned value management activities shall be consistent with the lowest levels specified by the OSD-DDCA approved CSDR Plans in Attachment 0004. Tailoring of the WBS below the levels specified in the CSDR plans shall be as mutually agreed between the contractor and the Government. The contractor shall implement a WBS that is consistent with the lowest levels specified in MIL-HDBK-881A (30 Jul 2005). The WBS shall be extended down to the appropriate level required by the contractor to provide adequate internal management, surveillance, and performance measurement, regardless of the reporting level stipulated in the contract for Earned Value Management purposes.

C.3.1.8. Contract Funds Status Report (CFSR). The contractor shall produce and deliver CFSRs, in accordance with CDRL A006.

C.3.1.9. Development/Procurement Cost Reporting. The nonrecurring development engineering effort and the recurring manufacturing effort of the developed item shall be reported separately in the CSDR and IPMR deliverables. Each separately reported effort shall use all applicable elements of the WBS according to their intended use as described in MIL-HDBK-881A (30 Jul 2005) and the approved OSD-DDCA CSDR Contract Plans, or as otherwise agreed.

C.4. ECP Configuration Management (CM).

C.4.1. ECP Configuration Management Plan (CMP). The contractor shall leverage the existing Stryker FOV CM Process to maintain CM of Stryker ECP variants and supporting equipment using ANSI/EIA-649, National Consensus Standard for Configuration Management, and MIL-HDBK-61A (SE), Configuration Management Guidance as guidance. The CM program shall be documented in the CMP, CDRL A007. The CMP shall include a description of how the contractor will maintain the CM program. Any deviation from the CMP shall require Government Contracting Officer approval.

C.4.1.1. ECP Configuration Identification and Document Control. The contractor shall document and maintain the configuration status across all ECP Stryker variants, production kits, and supporting equipment, hardware, software, and firmware to assure complete identification status accounting and control throughout the program lifecycle. The contractor shall synchronize the efforts of all variant and configuration management activities to ensure that the Stryker vehicles conform to the system performance specifications and are identified and documented in sufficient detail to support its life cycle, to ensure component interchangeability, and to ensure accurate system information and safety of system operations and maintenance. The contractor shall make documentation of the configuration status available for Government review on their TeamCenterwebsite.

C.4.2. ECP Configuration Control Board (CCB). The contractor shall utilize the existing Stryker FOV CCB for review of proposed ECP configuration changes. The contractor shall email the agenda identifying the proposed ECP Engineering Change Orders (ECOs) to be discussed with the Government Representatives no later than 72 hours prior to the CCB.

C.4.2.1. ECP ECO Package Coordination. Before submitting a proposed ECO for CCB review and including it in the agenda, the contractor

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shall coordinate the proposed ECO packages, using the Government approved ECO forms, with its Government counterpart. The ECO package shall include the contractors ECO leads contact information (phone number, mobile number, and email address) and contact information for an alternate point of contact. The contractor shall address and respond to Government questions and revise the ECO packages, as necessary.

C.4.2.2. ECP Indented Bills of Material (IBOM). The contractor shall prepare and maintain an IBOM for each ECP Stryker variant or configuration. The contractor shall maximize commonality across the ECP Stryker vehicles and minimize the logistics footprint to the ERR at the system, subsystem, Line Replaceable Unit (LRU), and maintenance significant spare and repair level with other configurations of the Stryker FoV at the Minimum Commonality Baseline (MCB). The contractor shall further maximize the commonality of Tools and Test, Measurement, and Diagnostic Equipment (TMDE), Technical Documentation and interchangeability of operator, crew and maintenance tasks, skills and positions. The contractor shall make the ECP IBOM available for Government review on their Team Center website.

C.4.2.3. ECP Configuration Documentation. The contractor shall maintain Support Replaceable Unit (SRU) and LRU performance specifications or equivalents that were developed under this contract. The contractor shall identify all the specifications developed under the terms of this contract. These specifications shall be delivered with the applicable Engineering Release Record (ERR) in accordance with CDRL A008.

C.5. Hazardous Material.

C.5.1. The contractor shall not deliver any Stryker common and unique parts containing cadmium, hexavalent chromium, beryllium, mercury, asbestos, radioactive materials, lead, lead solder, or other highly toxic or carcinogenic materials as defined in 29 CFR 1910.1200 under the Stryker ECP Development Program without Procuring Contracting Officer (PCO) approval in accordance with C.5.1.1 below. The contractor shall identify all parts containing any of the above hazardous materials (with the exception of lead and lead solder individual components), in accordance with CDRL A009 that have been approved through the process outlined in Section C.5.1. The contractor shall evaluate non-hazardous substitute materials and technologies for potential implementation and document the findings in the Hazardous Materials Management Program Reports (HMMP) (CDRL A010).

C.5.1.1. If the contractor determines that the hazardous materials listed in C.5 are the only acceptable substance or components with no known alternatives, then the contractor shall seek and obtain PCO approval via deviation request 45 days prior to delivering any such item in any form. The Government will consider deviations in these situations on a case-by-case basis. Under no circumstances will hazardous materials containing components or items be used or delivered to the Government without prior Government approval. If the contractor can verify that previously submitted waivers have included the parts to be delivered, a waiver submission is unnecessary and the earlier waiver will grandfather these part occurrences. A list of affected components is required in each HazMatDeviations submission, with the exception of lead and lead solder found in individual electrical components. Lead found in other part assemblies is required. The contractor shall make formal notification at the Critical Design Review (CDR) of each variant of components with no known alternatives parts and seek PCO approval via deviation 45 days prior to prototype vehicle delivery.

C.5.2. Hazardous Materials Management Program/Plan. The contractor shall fully implement and maintain a Hazardous Materials Management Program (HMMP) using National Aerospace Standard 411, "Hazardous Materials Management Program. The contractor shall amend their current HMMP plan for any material or process unique to the ECP program. The HMMP Plan amendment shall include the information required by paragraph 4.3 of NAS 411, including all subparagraphs, and document the approach for minimizing Cr6+. The amended plan shall identify and describe the organizational relationships and responsibilities for eliminating hazardous materials, define the process used to identify the hazardous materials utilized in the manufacturing process, establish prioritization criteria for ranking the relative risks of these hazardous materials and methodology of non-hazardous substitute materials/technologies trade-off studies. The amended HMMP Plan shall address hazardous materials imbedded in the system, produced by the system, and used or created by operation and maintenance of the system. The HMMP is subject to Government approval per the conditions set forth in associated CDRL A010. Compliance to the HMMP is required for the duration of the contract period.

C.5.3. Hazardous Materials Management Report The contractor shall submit Hazardous Material Management Reports in accordance with CDRL A011 which shall identify all hazardous materials (excluding materials and equipment provided by the Government) that are used or delivered in the performance of this contract. The contractors report shall include a listing of prioritized hazardous materials for minimization or elimination per the criteria established in the HMMP Plan and identify those hazardous materials and processes for which non-hazardous substitute materials and technologies may be available for implementation.

C.5.4. Hazardous Materials Parts Tracking Per Prototype Vehicle. The contractor shall identify and provide an electronic report in spreadsheet or database format, in accordance with CDRL A009 , identifying all components containing hazardous materials as identified in C.5 specific to each prototype vehicle.

C.5.5. Solder Requirement. The contractor shall query all of its present and potential Commercial off the Shelf (COTS) suppliers/vendors regarding the types of electrical solder used on all electronic equipment in the Stryker ECP effort. If an alternative, Lead-free electrical solder is used, the contractor shall include this information in a written report to the Government in accordance with CDRL A012.

C.6. Safety Engineering and Health Hazards.

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C.6.1. Safety Engineering. The safety program developed for the Stryker FOV shall be updated to address each variant and configuration within the Stryker ECP Program. The Contractor shall continue to apply the standard safety practices in accordance with MIL-STD-882 during the design or modification of the Stryker FOVs when incorporating the ECP design changes.

C.6.1.1. Safety Support. The contractors safety program shall further consist of providing the following support:

C.6.1.1.1. Identifying hazards and associated causal factors within the system by conducting Safety and Occupational Health analyses and hazard evaluations. This analysis shall be to the functional depth necessary to identify logical, practical, and cost-effective mitigation techniques and requirements for each causal factor. It shall further include operational, maintenance, test and training aspects, hardware, software, environmental and human factors interfaces as potential contributors in all phases of each variant/configuration within the Stryker ECP Program. The contractor shall include the results of any analysis at the System Safety Work Group (SSWG) Meeting and, in the Safety Assessment Report CDRL A013. Any new hazards shall be reported in the Safety Assessment Report CDRL A013.

C.6.1.1.2. Eliminating or reducing significant hazards by appropriate design or material selection. Significant hazards are hazards that are within Severity Category level I and II in accordance with MIL-STD-882. If the contractor determines a significant hazard to personnel cannot be avoided or eliminated, steps shall be taken to control or minimize those hazards. For any significant hazards identified, the contractor shall develop and present its mitigation(s) to the System Safety Working Group at working group meetings. The SSWG will make recommendations to the PM with regards to the approval. The hazards as well as the mitigations shall be included in the Safety Assessment Report (CDRL A013).

C.6.1.1.3. The Contractor shall ensure that warning and caution information detailing the hazards, and actions operators or soldiers must follow are included in instructions for operation, maintenance, assembly, and repairs. The contractor shall further ensure warning or caution markings/labels are placed on hazardous components of the equipment.

C.6.1.1.4. The contractor shall provide Safety Engineering support to the SSWG. The support shall include attendance at SSWG Meeting, providing technical briefs on identified hazards, and recommended mitigations for the elimination or reduction of those hazards. The contractor shall brief on additions to the Technical manuals in the form of warnings/cautions or changes to tasks associate with hazards. The SSWG meetings shall be held at test centers or at TACOM-Warren.

C.6.2. Safety Assessment Report (SAR). The contractor shall update a Safety Assessment Report for each ECP Stryker variant and configuration in accordance with CDRL A013.

C.6.2.1. For kits identified within Attachments 0005 and 0006, ECP delta design changes must be reviewed against the initial safety assessment; the safety assessment shall be updated by the contractor in accordance with CDRL A013. If the kit's initial safety assessment was performed by a Government agency, that report will be provided to the Contractor to be updated for the ECP delta design changes.

C.6.3. Radioactive Materials. The contractor shall not use any radioactive materials without the approval of the Government. If the contractor wishes to furnish any items under this contract that will contain Thorium, or other source material (see Title 10, Code of Federal Regulations, Part 40) in excess of 0.05 percent by weight of the mixture, compound, solution, alloy or any other intentionally added radioactive material, the contractor shall provide a list to the Government for approval in accordance with the CDRL A014. The Nuclear Regulatory Commission (NRC) license or Agreement State License and if applicable NRC Form 241 must be in place before contractor integration, possession, manufacturing, distribution and storage of the radioactive component or item. A copy of the contractors NRC license or Agreement State License application (if applicable NRC Form 241) and eventual NRC license or Agreement State License must be provided to the Tank-automotive and Armaments Command Life Cycle Management Command (TACOM LCMC) Safety Office in order to review the application and license, and to assure Government requirements, as provided in AR 385-10 and NRC 10 CFR, are met. The contractor during its application for NRC or Agreement State License shall immediately notify the Government of their requirement for NRC licensing. The contractor under their NRC or Agreement State License shall account for possession, system integration, distribution, storage, maintain records and document transfer of the Rad component or item to include documenting transfer to another NRC or Agreement State License.

C.6.3.1. Verification of Authorization to Receive Radioactive Material. The Government shall not issue direction to the contractor to receive or ship commodities, items or end items that contain radioactive materials without prior written verification from the TACOM LCMC or Communications-Electronics Command (CECOM) Radiation Safety Officer (RSO) listed on the U.S. Army NRC licenses for the items that the receiving destination, organization and consignee are authorized by an NRC or Agreement State license, and if applicable, an Army Radiation Permit (ARP), to receive or ship the items. The contractor shall not execute the direction from the Government to receive or ship items containing radioactive materials, nor shall the contractor upon the contractors own initiative receive or ship items containing radioactive materials, without prior written verification from the GDLS RSO listed on the GDLS NRC licenses for the items that the receiving destination, organization and consignee are authorized by an NRC or Agreement State license, and if applicable, an ARP to receive or ship the items.

C.7. Development.

C.7.1.1. The contractors responsibilities under Phase II of the ECP Upgrade Program shall be to restore lost platform performance through a limited set of engineering upgrades and ensure Stryker vehicles are able to accept the Army network.

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C.7.1.2. Systems Engineering. The contractor shall use its Systems Engineering process to execute the detailed design phase, in accordance with the Stryker Systems Engineering Plan (SEP), dated 25 June 2012, Attachment 0007.

C.7.1.3. Design to Unit Retrofit Cost (DTURC). The contractor shall design to cost in accordance with the DTURC goal given below and shall provide the DTURC status at Technical Reviews. The DTURC goal shall be used by the contractor as a design parameter to control vehicle production cost for the variants identified in paragraph C.7.1.6. The DTURC goal consists of the hardware associated with the critical technologies identified in sections C.7.2.1 through C.7.2.1.4, and the labor for teardown and rebuild/retrofit.

C.7.1.3.1. The DVH vehicle DTURC goal is \$0.905M for the first year of retrofits, assumed FY17. The DVH goal is based on a weighted average across all seven variants. The contractor should assume all existing DVH Stryker vehicles will be retrofitted, at a retrofit quantity of one brigade per year. The DTURC goal refers only to vehicle production costs and do not include modifications to kits. The control of vehicle production costs shall be achieved Identifying opportunities to simplify the PDR design while integrating the critical technologies in section C.7.2.1 improving existing cost source data and continuing to use cost as a key design parameter throughout detail design.

C.7.1.4. Information Assurance (IA).

C.7.1.4.1. Information Assurance Engineering Reports. The contractor shall provide IA reports pertaining to the ECP Upgrade to the Government in accordance with CDRL D001.

C.7.1.4.2. Information Assurance(IA)Design Review Information Package (DRIP). The contractor shall provide an Information Assurance Design Review Information Package in accordance with CDRL D002.

C.7.1.5. Engineering and Manufacturing Development.

C.7.1.5.1. Technology Demonstrations.

C.7.1.5.1.1. System and Subsystem Test Plan Execution. The contractor shall execute the Government approved Contractor System and Subsystem Test Plans delivered as CDRL D003.

C.7.1.5.1.2. Demonstrations and Contractor Tests. The contractor shall demonstrate/test capability improvements in a laboratory environment, during two user juries, and/or on a Stryker vehicle. The contractor shall provide test reports to the Government in accordance with CDRL D004 - System and Subsystem Test Reports.

C.7.1.6. Design. The contractor shall develop detailed designs in accordance with the Stryker Systems Engineering Plan (SEP) (Attachment 0007) and deliver them in accordance with CDRL D022. The Contractor shall also make the detailed designs available for Government review on their TeamCenter website. The contractor shall present the detailed design at the Critical Design Review (CDR) and at the Technical Interchange Meetings (TIMs) for the following vehicle variants:

DVH
ICVV
MCVV
CVV
FSVV
ESVV
MEVV
ATVV

C.7.1.6.1. Commonality. The contractor shall maximize the use of common components across all ECP Stryker variants. In the event a modification resulting from ECP Upgrade diminishes current levels of common components, the contractor shall notify the Government at the next TIM. The commonality considerations shall include the four technologies identified in Section C.7.2.

C.7.1.6.1.1 Any common and Mission Equipment Package (MEP) FOV changes shall be authorized by the PCO prior to incorporation into the ECP Program. Changes will be executed in accordance with the Changes clause FAR 52.243-2- Changes- Cost Reimbursement- Alternate V.

C.7.1.6.2. Throughout the development effort, the contractor shall prioritize the selection of components for commonality (hardware and software) in accordance with the following hierarchy:

- a. Stryker FoV - 7 DVH variants
- b. Stryker FOV FB Fleet
- c. Stryker Brigade Combat Teams - All equipment resident within an SBCT
- d. PEO GCS Inventory- Example: Combat Vehicle Platforms/ ABCT. United States Army Inventory
- e. Department of Defense Inventory - Includes Navy, Air Force, and other services within the DoD.

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C.7.1.7. Integration and Test.

C.7.1.7.1. Integration and Test Planning. The contractor shall integrate the design and plan subsystem and system level testing prior to formal Government developmental and operational testing and operational assessment. The contractor shall present design progress at the TIMs.

C.7.1.7.2. Integration Test Plans. The contractor shall provide test plans including schedules and procedures. The contractor shall present test planning progress at the TIMs. The contractor shall deliver system and subsystem test plans in accordance with CDRL D003 - Contractor System and Subsystem Test Plans.

C.7.1.7.3. Prototype Build. The contractor shall build prototypes in accordance with the quantities and variants listed below. The USG will replace any Non-Functioning Common and MEP parts for the build as GFE. In the event of an existing noncompliance in common or MEP hardware, the responsibility for the non-recurring costs to correct (eg., problem investigation and development and validations of the corrective actions) will not be covered under the terms and conditions of this contract.

DVH

ICVV: 4
 MCVV: 1
 CVV: 2
 FSVV: 1
 ESVV: 2
 MEVV: 1
 ATVV: 1

C.7.1.7.4. Contractor Systems Level Development Test. The contractor shall plan and conduct a final system level development test prior to delivery of vehicle prototypes. The contractor shall maintain system level test procedures, assemble and integrate the system, perform tests, review test results, and conduct regression testing prior to delivery of vehicle prototypes. The contractor shall deliver test results in accordance with CDRL D004.

C.7.1.7.5. Interface Control Documents (ICDs) and Interface Description Documents (IDDs). The contractor shall provide access to ICDs and IDD or equivalents (such as production drawings for LRUs and SRUs specifications) or other applicable requirements as determined necessary by the Government on the contractor Team Center website. The contractor shall maintain ICDs and IDDs in contractor format.

C.7.1.7.6. ECP Kit Drawings. The contractor shall provide delta kit and ECP DVH kit drawings IAW CDRL D015 utilizing the existing Stryker FOV kit TDPs.

C.7.1.8. Vehicle Electronics, Vehicle Network, and Software Development and Processes.

C.7.1.8.1. Vehicle Electronics and Vehicle Network Development Documentation. The contractor shall deliver updated vehicle electronics and vehicle network design documentation in accordance with CDRLs D005 and D019. The contractor shall deliver all one-wire diagrams developed in support of automotive systems, in-vehicle network, C4ISR, and power distribution architectures. The delivery shall be in accordance with CDRL D017.

C.7.1.8.2. Software Development Documentation. The contractor shall deliver updated software design documentation in accordance with CDRL D006. The contractor shall require first tier software subcontractors to develop and deliver a software design documentation set, or to provide the contractor the information necessary to develop a software design documentation set, in accordance with CDRL D006. The USG will coordinate with the Stryker FOV Software Program and provide the latest production software to ensure the ECP test vehicles are production representative.

C.7.1.8.3. Software Release Documentation. The contractor shall deliver updated software release documentation to the Government, in support of all software releases, in accordance with CDRL D018.

C.7.1.8.4. Software Development Process. The contractor shall deliver an updated Software Development Plan in accordance with CDRL D021.

C.7.1.8.5. Software Quality Assurance Process. The contractor shall prepare and deliver a Software Quality Assurance Plan (SQAP) for the development effort in accordance with CDRL D007.

C.7.1.8.6. Software Transition Process. The contractor shall prepare and deliver a Software Support Plan for the development effort in accordance with CDRL D008.

C.7.1.8.7. Software Metrics. The contractor shall prepare and deliver software process metrics in accordance with CDRL D009.

C.7.1.8.8. Software Support. The contractor shall apply a software life cycle process in accordance with the Institute of Electrical and Electronics Engineers (IEEE) Standard, Systems and Software Engineering Software Life Cycle Processes [IEEE Std 12207-2008 | ISO/IEC

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12207:2008(E)], to provide production software support and maintain and upgrade Mission Critical Computer Resources. Mission Critical Computer Resources are defined as the contractor-supplied hardware/software items necessary for the vehicle to be operative.

C.7.1.9. Structural Analysis. The contractor shall evaluate the structural integrity of new and modified mechanical structures and LRU designs. The contractor shall provide conclusions and recommendations regarding design adequacy and provide analyses of conformance to the System Performance Specification (SPS) (Attachment 0010) at TIMs.

C.7.1.10. Modeling and Simulation (M&S). The contractor shall perform M&S in accordance with the Systems Engineering Plan (Attachment 0007).

C.7.1.11. Survivability Analysis and Validation. The contractor shall evaluate the survivability of new and modified mechanical structures and LRU designs. The contractor shall provide conclusions and recommendations regarding design adequacy and provide analyses of conformance to the SPS (Attachment 0010) in accordance with CDRL D010-Fire Suppression M&S Data, and CDRL D011-Ballistic Vulnerability M&S Data. Upon written request, the contractor shall provide input for updating the Government Stryker Simulation Support Plan. The contractor shall utilize the existing Stryker FOV baseline models.

C.7.1.12. Thermal Analysis and Validation. The contractor shall manage the design of vehicle subsystems and determine thermal loads and temperature distributions. The contractor shall provide conclusions and recommendations regarding design adequacy and provide analyses of conformance to the SPS (Attachment 0010) at scheduled TIMs.

C.7.1.13. Reviews.

C.7.1.13.1. Meeting Documentation. For each formal technical review, the contractor shall prepare a meeting agenda and presentation material prior to each of the meetings. The contractor shall prepare written minutes following each of the meetings and forward to all attending organizations no later than 48 hours after the meeting in accordance with CDRL D020 - Meeting Minutes. Organizations responsible for each action item shall be indicated with suspense dates mutually agreed upon during the meeting.

C.7.1.13.1.1. Technical Reviews. The contractor shall conduct technical reviews in accordance with the IMS and SEP for each variant identified in Section C.7.1.6. Whenever feasible, multiple variants shall be covered during a formal review. The entry and exit criteria for each formal review in the current Stryker SEP (Attachment 0007).

C.7.1.13.1.2. Integrated Product Process Development (IPPD).

C.7.1.13.1.2.1. Integrated Product Process Development (IPPD). Integrated Product Team (IPT) Working Groups (WGs) comprised of Government and Contractor subject matter experts (SMEs) shall review progress of the ECP Program. The Contractor shall inform the Government of the schedule of those WG meetings that correspond to the Test, Systems Engineering, Survivability, Lethality, Mobility, Vetrionics, and Software Working IPTs (WIPTs) identified in Table 3.4.4-1 of the SEP.

C.7.1.13.1.2.2. Reliability Contractor Support. The contractor shall provide support to the Government Stryker Brigade Combat Team (BCT) Project Manager for selected Government briefings and presentations. The contractor shall attend formal and informal meetings and prepare appropriate electronic media to support Government briefings and presentations. The meetings may include, Integrated Product Team (IPT) meetings, RAM scoring conferences, Test Readiness Reviews (TRR), and RAM Assessment Conferences.

C.7.1.14. Technical Performance Parameters (TPPs). The contractor shall propose TPPs for the purpose of mitigating program risk. The contractor shall propose TPPs no later than 30 days after contract award at the next scheduled TIM. The contractor may propose modification of the TPPs with Government concurrence. The contractor shall report on the status of TPPs and their effect on conformance to the SPS (Attachment0010 at TIMs and formal reviews. The initial TPPs for the Stryker ECP are weight, CG, and DTURC.

C.7.1.15. Reliability Requirements. The contractor shall design and test for compliance to reliability requirements. As an ECP effort, the vehicles designed and built under this ECP shall not degrade the reliability performance of Contractor Furnished Equipment (CFE), hardware, and software below the level specified in the SPS (Attachment0010). The contractor shall present progress at theTIMs.

C.7.1.15.1. Reliability Program Plan Execution. The contractor shall execute the approved Reliability Program Plan, Attachment 0008 ,developed in Phase 1 of the ECP Program.

C.7.1.15.2. Reliability Case Report. The contractor shall document in the form of a Reliability Case Report the achievement of the Government approved Reliability Program Plan objectives in accordance with CDRL D012. The contractor generated report shall assess the reliability of the system using the System Reliability Model, the life-cycle operational & environmental load estimates generated therein, and the Failure Definition and Scoring Criteria (FDSC), Attachment 0009.

C.7.1.15.3. Reliability Analysis. The contractor shall establish and maintain an integrated Reliability model for the ECP effort based upon the FDSC identified by the Government that translates the development design into allocations and predictions enabling achievement of the reliability quantitative performance parameters. The system reliability model shall be used to: (1) generate and update the reliability allocations from the system level down to lower indenture levels; (2) aggregate system-level reliability based on reliability estimates from lower indenture levels; (3) identify single points of failure; and (4) identify reliability critical items

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and areas where additional design or testing activities are needed in order to achieve system reliability requirements. The system reliability model shall be used in order to assess if the design (including GFE integration) is capable of realizing reliability requirements in a user environment.

C.7.1.15.4. Failure Modes and Mechanism. The contractor shall identify and characterize failure modes and mechanisms for the ECP effort. The identification of failure modes and mechanisms shall be performed as a part of the design effort for any configuration items developed or modified under the ECP effort. The estimates of life-cycle loads on assemblies, subassemblies, and components shall be used as inputs to engineering and physics-based models in order to identify potential failure mechanisms and the resulting failure modes. Failure modes that may be induced by user or maintainer error shall be identified and confirmed through analysis or test. Failure modes and distributions that may be induced by manufacturing variation or errors shall be identified and confirmed through analysis or test.

C.7.1.15.5. Closed-Loop Failure-Mode Approach. The contractor shall establish and implement a closed loop failure reporting, analysis and corrective actions system. The contractor shall have an integrated team, consisting of suppliers of assemblies, subassemblies and components that shall analyze failure modes arising from modeling, analysis, test, or the field throughout the life cycle in order to formulate corrective actions. This process will be used to respond to Test Incident Reports (TIRS) and develop Failure Analysis & Corrective Action Reports (FACARS). Failure modes shall be mitigated by one or more of the following approaches: eliminating the failure mode, reducing its occurrence probability or frequency, incorporation of redundancy, mitigation of failure effects (e.g., fault recovery, degraded modes of operation, providing advance warning of failure), or acceptance of failure mode, failure rate, or detection rate.

C.7.1.16. Chemical, Biological, Radiological, and Nuclear (CBRN) Survivability and Decontamination Compliance Report. The contractor shall provide an analysis of the Stryker ECP Upgrade compliance with Army FM 3-11.5 "CBRN Decontamination", April 2006, denoting CBRN survivability and decontamination requirements, to the Government in accordance with CDRL D013, CBRN Survivability Compliance Report.

C.7.1.17. System Integration Laboratories (SIL).

C.7.1.17.1. ECP SIL Capability. The contractor shall modify existing ECP SIL capability as required to support the design, development, and testing of the Stryker ECP variants cited in paragraph C.7.1.6.

C.7.1.17.2. Unique SIL Benches. In the event the contractor requires utilization of the unique Stryker FoV SIL benches for ECP purposes, the contractor may perform hardware and software modifications to the unique SIL benches. Upon completion of testing, the modifications shall be reversed and the bench shall be returned to the latest approved level of configuration.

C.7.1.17.3. Facility Demonstrator Vehicle and ECP Stryker SIL Maintenance. The contractor shall provide routine maintenance, not to exceed \$5,000, to the Facility Demonstrator Vehicle and the ECP portion of the SIL facilities and equipment created or modified under this contract. If the routine maintenance is expected to exceed \$5,000, the contractor must obtain Contracting Officer approval prior to proceeding with the routine maintenance.

C.7.2. Specific Scope. The contractor shall execute Stryker ECP Upgrade activities for the four key vehicle improvements and corresponding technologies listed below. Whenever feasible, the contractor shall use previous Stryker and LAV subsystem and component designs to mitigate cost and risk to the Stryker ECP Upgrade. Unless otherwise stated within this SOW, vehicle performance requirements can be found in Attachment 0010-Stryker Double V-Hull(DVH)FoV Performance Specifications No. 2014.11-2014.20 inclusive (Attachment 0010). In the event that the key technologies inhibit the system's ability to meet the Stryker DVH SPS, the contractor shall notify the Government, and a mutually agreed upon path forward shall be developed for final Government approval.

C.7.2.1. Critical Technologies.

C.7.2.1.1. The contractor shall add a mechanical power upgrade

- a. The contractor shall integrate into the Stryker DVH vehicle the 450 hp rated engine used during the Phase 1 development activities.
- b. The contractor shall integrate into the Stryker DVH vehicle the six speed transmission used during the Phase 1 development activities.
- c. The contractor shall integrate into the Stryker DVH vehicle a climate control system capable of removing 15kW of heat from the crew compartment of the vehicle.
- d. The contractor shall upgrade all the supporting subsystems on the Stryker DVH vehicle, within the Full Up Power Pack), to maintain sub-system fluid temperatures within the manufacturers specification, while subjected to a continuous tractive effort weight ratio of 0.62 at a vehicle weight of 60,000 lbs, ambient temperature of 120 °F /49 °C, 3% RH, 1125 W/m² solar load, and with the climate control system off.

The supporting sub-systems are as follows:

- i. Engine
- ii. Transmission
- iii. Transfer Case
- iv. Hydraulics
- v. Fuel Delivery

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C.7.2.1.2. The contractor shall add an electrical power upgrade.

a. The contractor shall integrate into the Stryker FoV the 910 amp alternator capable of producing a minimum current of 910 amps @ 28 Vdc at standard temperature and atmospheric pressure conditions onto the FUPP as outlined above in section C.7.2.1.1 (mechanical power upgrade).

b. The contractor shall integrate into the Stryker FoV an electrical power distribution system capable of distributing the maximum amount of electrical power generated by the 910 amp alternator.

c. The contractor shall develop a software controlled and reconfigurable solid state breaker architecture to replace the existing power distribution panel (PDP), PDP #2, and Communications Power Distribution Unit). The architecture shall support the additional electrical generation capacity of the 910 amp alternator. The architecture shall provide a uniform circuit protection method and allow for control of solid state circuit breakers from multiple crew stations. The power distribution system shall provide CAN SAE J1939 and Ethernet standard vehicle interfaces. The contractor shall utilize MIL-STD-1275 for the electrical power distribution system. The electrical power distribution system shall have the ability to monitor and report over the CAN interface, power usage by channel in order to enable future LRU prognostics and diagnostics.

C.7.2.1.3. The contractor shall add a chassis upgrade.

a. The contractor shall integrate into the Stryker DVH vehicle a chassis design solution (suspension, driveline and steering subsystems) supporting a Gross Vehicle Weight Rating (GVWR) of no less than 63,000 lbs).

b. The contractor shall integrate into the Stryker DVH vehicle the following suspension & driveline systems:
GDLS 6.0 suspension & driveline. Passive spring and damper response tuned to the requirements within the current DVH SPS, No. 2014.11-2014.20, para 3.1.1.6.5. at a vehicle weight of 60,000 lbs. 395/85R20 tires.

c. The driveline ratio on the Stryker DVH vehicle shall be optimized for the following parameters:

i. Top speed: 60 MPH

ii. 50 meter dash: less than nine seconds

iii. Sustained tractive effort ratio cooling: 0.62

The following parameters shall be used in system analyses conducted to support this optimization:

Power pack updates described in Section C.7.2.1.1

Electrical system upgrades described in Section C.7.2.1.2

Vehicle weight of 60,000 lbs 550 amp power draw from alternator

Vehicle frontal area of 91.84 ft²

Drag coefficient of 1.2 Cooling fan speed representative of the test condition

C.7.2.1.4. In-Vehicle Network.

C.7.2.1.4.1. The contractor shall add an In-Vehicle Network (IVN) hardware and software architecture, designed in accordance to Attachment 0011 (Attachment 0011 references the specifications described in Attachments 0012, 0013, 0014, and 0015) "Stryker In-Vehicle Network Architecture (IVNA) Specifications" to the Stryker FoV.

C.7.2.1.4.1.1. The contractor shall apply the IVNA specifications to all software and hardware components that are created or added to the Stryker FoV system; resultant from the contractors implemented IVN design. All pre-existing software and hardware Stryker Upgrade components are exempt from IVNA specification compliance, with regards to their integration with the contractors implemented IVN design.

C.7.2.1.4.2. The contractor shall use Commercial off the Shelf (COTS), Information Assurance enabled IT products as applicable per DoDI 8500.2.

C.7.2.1.4.3. The contractor shall meet the audit standards of data integrity for the following information assurance control items as specified in DODI 8500.2 and as applicable to the contractors IVN ECP design:

COBR-1 DCSR-3 ECCT-2 PECF-2

PRRB-1 DCFA-1 DCP-1 IATS-2

DCSP-1 ECCR-2 ECID-1 ECCR-3

DCPA-1 ECAT-2 DCAS-1 DCNR-1

ECTC-1 PRMP-2 DCBP-1 ECTM-2

DCSL-1 ECCD-2 ECIC-1

PESL-1 EBB-3

C.7.2.1.4.4. The contractors IVN design shall be premised on integration with the Video Display Electronic Terminal (VDET) based Stryker architecture. The contractor shall not create an IVN design premised on integration with the VDT based Stryker architecture.

C.7.2.1.4.5. The contractors IVN design shall replace the Strykers existing GFM Drivers Vision Enhancer display with an alternate

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multifunction capable display and shall maintain or exceed functionality as implemented in the current Stryker (Reference: IVN Display Resource, per Attachment 0011).

C.7.2.1.4.6. The contractors IVN design shall replace the Strykers existing GFM PM-FBCB2 JV-5 systems display (P/N# TBD) with an alternate multi-function capable display and shall maintain or exceed functionality as implemented in the current Stryker platform (Reference: IVN Display Resource, per Attachment 0011).

C.7.2.1.4.7. The contractors IVN design shall replace the Strykers existing 10/100 Ethernet switch with a 10/100/1000 (Gigabit) Ethernet switch(es) and shall maintain or exceed functionality as implemented in the current Stryker (Reference: Ethernet Switch, per Attachment 0011).

C.7.2.1.4.8. The contractors IVN design shall network the VDET, the commanders IVN Computing Resource, and the drivers IVN Computing Resource (Reference: IVN Computing Resource, per Attach 0011).

C.7.2.1.4.9. The contractors IVN design shall implement a Multi-Function Vehicle Port (MFVP). (Reference: Multi-Function Vehicle Port, per Attachment 0011).

C.7.2.1.4.10. IVN Functionality.

C.7.2.1.4.10.1. All automotive gauges, indicators, signals, and statuses available on the Strykers Gauge Cluster Unit (GCU), that are driven by data delivered to the GCU via the Strykers CAN data busses, shall be viewable on the VDET and the commanders IVN Display Resource (Reference: IVN Display Resource, per Attach 0011).

C.7.2.1.4.10.2. Strykers Embedded Diagnostics System (EDS) Enhancements. The Stryker EDS user interface shall be made available on the VDET, the commanders IVN Display Resource, and the drivers IVN Display Resource (Reference: IVN Display Resource, per Attach 0011). The Stryker EDS active fault display and acknowledgment location shall be configurable to each of the EDS user interface locations cited above.

C.7.2.1.4.10.2.1. Option. The Stryker EDS shall be modified in accordance with the requirements contained in Attachment 0016.

C.7.2.1.4.10.3. The Strykers electrical power distribution system software user interface shall be made available on the VDET, the commanders IVN Display Resource, and the drivers IVN Display Resource (Reference: IVN Display Resource, per Attach 0011).

C.7.2.1.4.10.4. The Strykers GPS location (longitude, latitude, and elevation), GPS time, and GPS direction of travel shall be viewable on the VDET, the commanders IVN Display Resource, and the drivers IVN Display Resource (Reference: IVN Display Resource, per Attach 0011).

C.7.2.1.4.10.5. The Strykers Environmental Control System (ECS) settings shall be both viewable and controllable on the VDET, the commanders IVN Display Resource, and the drivers IVN Display Resource (Reference: IVN Display Resource, per Attachment 0011).

C.7.2.1.4.10.6. The Strykers PDF Viewer, accessible on the VDET of the current Stryker, shall be made accessible on the commanders IVN Display Resource and the drivers IVN Display Resource (Reference: IVN Display Resource, per Attach 0011).

C.7.2.1.5. Government Furnished Equipment (GFE).

C.7.2.1.5.1. In accordance with the IMS, the Government will provide one vehicle by the specified need dates for each ECP-modified variant to support logistics validation and verification. The contractor shall utilize the vehicles for processes supporting logistics validation and verification during ECP phase II. Logistics validation and verification may necessitate vehicle alteration as required for development of logistics products approved by the Government.

C.7.2.1.5.2. The Government will provide test vehicles by the IMS-specified need dates for selected ECP-modified variants to support contractor testing. The variants and the quantity provided will be selected by mutual agreement between the Government and the contractor. The contractor shall utilize the vehicles for processes supporting contractor testing during ECP phase II. Contractor testing may necessitate vehicle alteration.

C.7.2.1.5.3. The contractor shall provide the Government with a GFM/E/I requirements list to support Phase II in accordance with CDRL L020.

C.7.2.1.5.4. The Government will provide the use of the following Government test sites: Aberdeen Proving Grounds, Yuma Proving Grounds, and Electronics Proving Grounds as required to support the initiatives.

C.7.2.1.6. Interface to Existing kits and C4ISR Kits. As necessary and in accordance with the kit assessment accomplished during Phase 1, the contractor shall modify the existing kits and kit interfaces identified in Attachments 0005 and 0006 to allow for kit installation onto Stryker vehicles such that the variant roles, referenced in Attachment 0005, can be configured from the Contractor's Technical Data Package (TDP) managed variant configurations. The contractor shall utilize the existing Stryker FOV C4ISR Technical Data

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Package (TDP).

C.7.2.1.6.1. Vehicle Fit-Up. Subsequent to the efforts conducted under C.7.2.1.6, the contractor shall conduct a trial fit up of the kits, document and list corrective actions for any interferences/incompatibilities and provide to the Government IAW CDRL D014. The contractor shall conduct a second fit up to verify corrective actions taken as a result of initial fit up. All Stryker kits shall be checked against applicable Stryker FoV ECP vehicles. The USG will provide the Stryker FOV base hardware for the vehicles to include the DVH delta kits in accordance with CDRL L020-Government Furnished Material.

C.7.2.1.7. Risk Management.

C.7.2.7.1. The contractor shall follow the Stryker Risk Management Plan (Attachment 0017).

C.7.2.7.2. The contractor shall provide a risk status report in accordance with CDRL D016.

C.7.2.1.8. Transportability Analysis & Report. The Contractor shall analyze each Stryker DVH variant for its ability to be transported by road, rail, ship and air (C-17 and C-5 airframe); with and without a full complement of kits. Preliminary Transportability analysis results will be presented at the USG scheduled CDR. A final Stryker Transportability Report will be supplied per CDRL D023.

C.8. Integrated Logistics Support (ILS). The Contractor shall plan, manage and execute an ILS Program for Stryker ECP Phase II. The Contractor shall use the existing Stryker logistic support products as a baseline, conduct a Logistics Support Analysis (LSA) of the ECP changes/improvements, and update Logistics Management Information (LMI) to match the ECP vehicle configurations. The contractor shall ensure LSA/LMI data is available with sufficient lead time to validate/verify and field a logistics support package in support of ECP vehicle testing, and ECP vehicle fieldings. Logistic product updates under this scope are for ECP vehicle changes only, to include all vehicle configuration/technical data package changes, and the resolution of all ECP testing. Single OPTEMPO will be provided by the USG.

C.8.1. Level of Repair Analysis (LORA). The contractor shall conduct a LORA for new/modified ECP Field level components/ Line Replaceable Units (LRUs) The contractor shall conduct an economic and non-economic repair analysis. The contractor's examination and analyses shall determine the system, subsystems, assemblies, and subassemblies level of repair to the Field Level and determine if discard is warranted using the latest version of the Computerized Optimization Model for Predicting and Analyzing Support Structures (COMPASS) or Equipment Designers Cost Analysis System (EDCAS) Model. The contractor shall provide a LORA report, to include all COMPASS or EDCAS input and output data files used in the assessment (CDRL L001).

C.8.2. Reliability Centered Maintenance (RCM) Analysis. The contractor shall perform RCM analysis on ECP program unique components in accordance with AR-700-127 to identify and document on and off system Operator and Field Level Maintenance service tasks based on scheduled and on-condition preventive maintenance requirements. The analysis shall be conducted to support the Stryker Two Level maintenance concept. The contractor shall provide a validated final report that will summarize the findings of the RCM analysis and provides the following information (CDRL L002):

- a) Fully described functions supported by the system under analysis
- b) Subsystems of the system under analysis
- c) Appropriate and cost effective maintenance policies for the subsystems analyzed
- d) Shortcomings and recommended design changes for subsystems analyzed, if discovered
- e) RCM output data that shall be used as input for decision support tools that allow for electronic maintenance diagnosis.

C.8.3. LMI/LSA Database. Supportability data shall be stored in the contractor's integrated LMI/LSA system database and shall be accessible to the Government at the contractors facility. The contractor's supportability database shall be capable of producing preformatted logistics reports including but not limited to Maintenance Allocation Charts (MAC) and shall have a query capability. LMI/LSA-001 & LSA-004 reports shall be developed using MIL-HDBK-502 for Acquisition Logistics as guidance. Reports from the LMI/LSA database shall be provided to the Government upon request. The contractor shall update their LMI databases to match the ECP configuration, and shall include Government Furnished Information (GFI)/Government Furnished Equipment/Material (GFE/M) data as required to document complete configurations and interfaces. (L003)

C.8.4. Maintenance Task Analysis. The contractor shall define all tasks required to operate, maintain, and support the system to the lowest field replaceable assembly, and to the lowest Field component level. The task analysis shall identify all logistic support resources (i.e., manpower, force structure, facilities, support equipment, test program sets, training, initial parts allocations, etc) required to perform each task. The analysis shall consider and define the ECP impacts on the Stryker FoV. Task analysis shall be documented via LMI reports. (L003)

C.8.5. Provisioning. The contractor shall conduct provisioning in accordance with the established Stryker 2 Level maintenance philosophy down to the lowest field replaceable assembly. The contractor shall provide production representative drawings for all P-coded items to support item identification, application and next higher assembly in accordance with CDRL L004.

C.8.5.1. Provisioning Conferences. The contractor shall conduct formal provisioning conferences quarterly, and shall provide the necessary information to allow the Government to screen all part numbers for existing National Stock Numbers (NSNs) prior to delivery of LMI in accordance with CDRL L004. Ensure first delivery is after CDR.

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C.8.5.2. Provisioning Alignment with Technical Publications Development. The contractor shall coordinate and schedule provisioning activities to ensure technical manual tasks and associated RPSTL updates are in alignment.

C.8.5.3. Engineering Data for Provisioning (EDFP). The contractor shall assemble the EDFP 30 days prior to the provisioning conference using 1388 delivery format. (CDRL L004).

C.8.5.4. Quality of LSA 036 Reports. The contractor shall ensure that the LSA 036 reports presented to the Government are acceptable for loading into the Logistics Modernization Program (LMP)/SAP system. The contractor shall deliver the LSA 036 for provisioning conferences in accordance with CDRL L004. The quality of the LSA 036 will be measured by the number of Provisioning Line Item Sequence Numbers (PLISNs) presented versus the number of errors found at each provisioning conference. For the entire contract period, the contractor shall present LSA 036 reports for each conference with a minimum of 98% acceptance rate (no more than 2 errors per 100 lines). The contractor shall provide all drawings to support the provisioning conferences. (CDRL L004).

C.8.6. Technical Publications.

C.8.6.1. DVH Technical Publications. The contractor shall create new Technical Publication's for DVH ECP using current DVH as a baseline. For the - 10 (Operator) and -13&P IETM DVH technical publications the contractor shall incorporate ECP changes into current DVH publications. All new and modified tasks will be written to existing Operator/IETM publication MIL-STD, determined at the start of work meeting and updated ECP style guide (Attachment 0025), Legacy current FoV waivers apply to carry over tasks only The contractor shall use the Stryker FOV current DVH publications and current kit publications.

C.8.6.2. The contractor shall update and provide, in accordance with CDRLs L005 and L006, validated and verified Interactive Electronic Technical Manuals (IETMs) and paper Operator manuals and updated kit publications to include an editable PDF file on CD-ROM or DVD for paper-based publications. The publications shall be based on the production configuration of the Stryker ECP variants.

C.8.6.3. Publication History File. The contractor shall maintain a publication history file (CDRL L008). This file shall contain a record of all changes to each publication as a result of ECP change drivers (including but not limited to ECOS or ECPs, DA Form 2028s, FACARs, Government comments).

C.8.6.4. Technical Manual Validation and Verification. The contractor shall provide combined validation and verification support in accordance with AR 700-127. The contractor shall provide technical (SME) and administrative Val/Ver Monitors support for the Government TM Validation and Verifications. Validation and Verification shall be performed per USG Validation and Verification Plan. (Attachment 0022) This support may consist of management support, logistics engineering support, maintenance engineering, diagnostic engineering, technical writers/editors and illustrators, provisioning support, field representative support and other specialties engaged in development. The contractor shall monitor and document (IAW CDRL L005) the combined contractor validation and government verification of the IETMs, paper operator manuals, kit publications, and incorporate all changes or corrections into the final products. The contractor will incorporate all contractor and government comments and corrections made during the validation and verification in the time frame specified in the USG Validation & Verification Plan. USG will be available to support the contractors validation/verification schedule.

C.8.6.5. Technical Publication Quality Assurance Plan (TP QA). The contractor shall adhere to the current Stryker TP QA (Attachment 0021).

C.8.6.6 External Agency Tasks Review Comment Incorporation Cycle Time. External agency review comments shall be incorporated within 30 working days of the contractor receiving direction to include these comments by the COR. Incorporation shall be demonstrated to the Government by a joint review of the IETM/Operator Manual/Kit Publication content upon final delivery (Government may use sampling to ensure incorporation). Schedule may be subject to rebaselining due to USG priority changes or influences affecting schedule outside GDLS control and may be adjusted based on date and magnitude of external agency comments (Safety, CASCOM, TCM, etc.).(CDRL L005, CDRL L006)

C.8.6.7. Rejected Tasks Cycle Time. Tasks that are rejected during validation & verification shall have all comments/corrections incorporated, and be presented to the Government within 20 working days of task rejection date unless the error is not the result of logistics product development.

C.8.6.8. Technical Publication Source Materials. The contractor shall create, provide and deliver technical publications source materials in accordance with AR 25-30 and DA PAM 25-40. The contractor shall deliver technical publications source material as part of all deliveries of the IETM (CDRL L005), Operator Manuals (CDRL L006), Technical Manuals and Technical Bulletins (TBs) (CDRL L009), and any other technical publication provided as part of this contract.

C.8.7. Battle Damage Assessment and Repair (BDAR) TM. The contractor shall update the current Stryker BDAR manuals (Operator and Field Level) to incorporate Stryker ECP deltas. (CDRL L007) The contractor shall use the current Stryker FOV BDAR manuals GFE.

C.8.7.1. Demil Instructions. Contractor shall update current FOV Demil instructions to incorporate ECP deltas. (L007) The contractor

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shall use the current Stryker FOV Demil instructions GFE.

C.8.8. The contractor shall develop Paper Schematics. The current DVH schematics shall be updated and provided in accordance with (CDRL L007).

C.8.9. Special Tools and Test Equipment (STTE). The contractor shall conduct an analysis of the tools, special tools and test equipment for ECP components. If STTE requires a change an ECP shall be prepared. The USG must be notified and give authorization prior to preparing an ECP for new or modified STTE. The contractor shall follow the order of precedence below when considering new or modified STTE:

- a. Use of equipment available to Stryker units or Stryker support units.
- b. The use of a federal supply item by adding it to the Stryker RPSTL as a special item.
- c. The development of a new support item.

C.8.9.1. The contractor shall maintain and furnish to the Government, special tool records and documentation updates, if changes occur due to ECP program. (CDRL L010). The contractor shall ensure that any new software/hardware is Department of Defense Information Assurance Certification compliant.

C.8.9.2. BII & STTE Drawings. Contractor shall update any changes to current BII Drawings (L010). The contractor shall use the current Stryker FOV BII drawings GFE.

C.8.10. Packaging Data Development: The Contractor shall develop and provide packaging data (CDRL L011) for new or modified ECP items with a Source, Maintenance & Recoverability (SMR) code of P (procure) excluding PR (procure terminal obsolete, replaced) and PZ (procure terminal obsolete, not replaced) to provide for life cycle support and safe distribution of repairable items. Packaging data development priority shall be given to repairable items, Line Replaceable Units, and any large, high cost item classified as a Special Group Item. All items shall be classified as a selective group item or special group item. Contractor shall provide facilities, equipment, materials, and access to the provisioned items for packaging development. The contractor shall complete verification and provide support data with each data submittal. Validation support data shall include item drawings and copies of any applicable Material Safety Data Sheets for Hazardous Material items. Items with assigned Contractor and Government Entity (CAGE) Codes of: 1T416, 21450, 80204, 96906, 10060, 24617, 80205, 99237, 80244, 81343, 81346, 81348, 81349, 81352, 88044, and 05047 are excluded from packaging data development.

C.8.10.1. The contractor shall generate and provide LMI packaging data in accordance with CDRL L011 to ensure compatibility with the Governments data repository. The contractor shall develop, maintain and update packaging data.

C.8.10.2. The Contractor shall develop Special Packaging Instructions (SPI) for each item classified as a Special group item. Figures and narrative data shall be developed to describe the form, fit, and function of packaging in sufficient detail for production. SPI format shall be IAW CDRL L012.

C.8.10.3. Validation Testing of Packaging. Validation testing of Special group items shall be in accordance with CDRL L012. Each SPI submitted shall have a validation report including photographs. Photographs shall show the product is undamaged. Validation report shall be submitted concurrently with SPI submittal.

C.8.10.4. Equipment Preservation Data Sheets (EPDS). Contractor shall update the current Equipment Preservation Data Sheets (EPDS) for each ECP vehicle variant IAW CDRL L018.

C.8.11. Reusable Container Assessment. The contractor shall perform assessments to determine if existing container designs are suitable. The contractor shall assess the fit and function of existing containers and compare costs of modifications with the cost of new designs. Assessment data shall include analysis of the need for a new or modified LLRC. Assessment data shall compare costs for conventional packaging and LLRC packaging.

C.8.11.1. Reusable Containers for ECP Unique items. Container Design Retrieval System (CDRS) is a management system program to provide a DoD centralized automated database system for storing, retrieving, and analyzing existing container designs and test information concerning specialized containers. The contractor shall use this system when making search requests for DoD Long Life Reusable Container (LLRC) designs.

C.8.11.2. Reusable Container Searches. The contractor shall identify ECP unique engine, transmission and other major repairable items, including Line Replaceable Units (LRUs), and items requiring special handling or condemnation procedures as possible LLRC candidates. The contractor shall make a CDRS search request for any item that TACOM LCMC approves as a LLRC candidate. The contractor shall search for new or existing commercially available reusable container designs that are suitable for LLRC candidates. Format of CDRS search request shall be IAW CDRL L013.

C.8.11.3. Reusable Container Proposal. The contractor shall propose reusable container development for TACOM LCMC LLRC candidates. Each proposal shall include assessment data, cost of development, design, LLRC prototype manufacture, validation, and completion of the technical data package for competitive procurement (Attachment 0024). Container proposals, testing/validation, and TDP development shall be IAW CDRL L014.

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C.8.11.4. Development. Upon approval of a LLRC design proposal or container modification proposal, the contractor shall build a prototype.

Training and Training Support.

C.8.12. Training Products. The contractor shall develop all training products IAW Tradoc Regulation 350-70 using the existing Contractor System. The contractor shall provide the following training products for Operator and Maintenance Training. The training products will consist of Course outlines, draft Program of Instruction (POI), Lesson Plans and Student Evaluation Guides. CDRL L015.

C.8.12.1. Instructor and Key Personnel Training (I&KPT). The contractor shall conduct four operator and four maintainer training classes using training materials developed under this contract, at four CONUS locations (2 EA JBLM, 1 EA Ft. Benning, 1 EA Ft. Lee). The purpose of the classes is to teach instructors and key personnel on ECP training material updates, and verify the content of OPNET and FLMNET ECP training materials. The contractor shall provide to the government class rosters, student evaluations and After Action Report. (CDRL L016) Class size and durations as follows:

I&KPT Training - 4 students / Each class NTE 80 hours

C.8.12.2. Training shall consist of proper operating procedures, equipment and familiarization, safety precautions, operator and maintainer Preventative Maintenance Checks and Services (PMCS) maintenance tasks IAW the appropriate Vehicle Technical Manual. All necessary materials and equipment required to support training of the Stryker ECP variants shall be provided by the contractor. Draft manuals shall be used for training purposes until manuals have been authenticated.

C.8.12.3. Instructor Requirements/Qualifications. The contractor shall provide instructors for each training course. Instructors shall be present to instruct, and to ensure adequate supervision of student performance during practical exercises. The instructors shall be ARMY BASIC INSTRUCTOR COURSE (ABIC) certified.

C.8.12.4. Course Material Development. Training materials shall be developed in accordance with TRADOC Regulation 350-70, Systems Approach to Training Management (SATM), Processes, and Products.

C.8.12.5. The contractor shall conduct a Training Task Analysis on new and updated Military Occupation Specialty tasks added to the Program of Instruction (POI), in conjunction with the TRADOC Proponent Schools to ensure all tasks are complete, correct, and allocated the proper amount of time, as set forth in the POI. (CDRL L017)

C.8.13. Contractor shall provide access to technical data (to include drawings, 3D CAD modeling and description of functionality) to the government to support ECP changes to the Stryker Training Aids Device Simulations and Simulators (TADSS).

C.8.14. Maintenance of ECP Logistics Vehicles. The contractor shall conduct maintenance of ECP logistics vehicles located at the Shelby facility in accordance with AR 750-1, Army Materiel maintenance Policy. The contractor shall perform periodic schedule maintenance and unscheduled vehicle maintenance of all facility vehicles, in accordance with the applicable technical manual for the vehicle. The contractor shall document the condition and configuration status of all facility vehicles and provide documentation access to the COR upon request. The ECP vehicle(s) shall be maintained in ECP configuration unless directed other by USG.

C.8.14.1. Maintenance of ECP Prototype/Demo Vehicles. The contractor shall conduct maintenance of ECP vehicles in accordance with AR 750-1, Army Materiel maintenance Policy. The contractor shall perform periodic schedule maintenance and unscheduled vehicle maintenance of all facility vehicles, in accordance with the applicable technical manual for the vehicle. The contractor shall document the condition and configuration status of all facility vehicles and provide documentation access to the COR upon request. The ECP vehicle(s) shall be maintained in ECP configuration unless directed other by USG.

C.8.15. ITEM UNIQUE IDENTIFICATION (IUID) MARKING: The contractor shall adhere to IUID standards per DFARS Clause 252.211-7003 for ECP. The contractor shall identify IUID candidates at quarterly LMI Reviews for USG approval. After approval, The contractor shall implement specific IUID markings, IAW MIL-STD-130. The contractor shall incorporate the IUID marking into the existing data plates. Whenever feasible, the location of the marking on the item shall ensure its readability during normal operational use.

C.8.16. Log Management Information (LMI) Reviews. LMI reviews shall be conducted quarterly at a time that will not conflict with quarterly provisioning conferences. The contractor shall prepare in contractor format a presentation to show the current status of logistics products. These reviews will be used to monitor progress, identify and resolve problems, prioritize activities, and establish schedules for all logistics products. Minutes will be recorded by the contractor to include action items and provided to all attendees NLT three working days after the LMI reviews IAW CDRL L019. All LMI reviews will be held at a mutually agreed upon location and time.

C.9. Contractor Test Support (CTS).

C.9.1. Contractor Technical Testing. The Contractor shall execute tests to sufficiently mitigate technical risks and confirm the readiness of the system to enter Government test.

C.9.2. Contractor Support to USG Testing. The contractor shall support Government testing as defined in Stryker ECP draft TEMP

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

(Attachment 0023). Contractor test support consists of the following: (1) Training for Government test officers, data collectors, operator, crew and maintenance personnel; (2) Providing technical manuals, delta kits, special tools and test equipment, (3) Field Test Engineers (FTE) to support testing of all ECP vehicles at the test sites, and mechanics to support testing of vehicles at CRTC, TRTC, EPG, Contractor Technical Testing and the first scheduled services at YPG and APG. . The FTE and mechanics shall orient, advise and make recommendations to Government personnel with respect to operations, maintenance, repair and parts supply for the equipment furnished under this contract. (4) The contractor shall verbally notify the Government data collector of any known errors or inconsistencies in technical manuals or publications. (5) The contractor shall be required to resolve all GFE integration and vehicle performance issues that result during Contractor supported Government testing. (6) The contractors FTEs shall deprocess all prototypes identified in this scope of work. Deprocessing shall consist of the repair of transit damage, integration of over-packed items, integration of mission equipment and deployment kits and repairs to ensure the system is fully mission capable prior to test. The contractor shall meet the operational readiness of Full Mission Capable (FMC) in accordance with the Interactive Electronic Technical Manuals (IETM).

C.9.2.1. Delta Kits. The Contractor shall deliver ECP delta kits to support USG Development and Live Fire Testing. The delta kits and accompanying installation instructions shall be delivered to the test sites 30 days in advance of the arrival of test vehicles at the test sites as defined in the Stryker ECP Draft TEMP. The USG will be responsible for providing the GFM kits.

C.9.3. System Support Package List (SSPL). The contractor shall deliver a System Support Package List (SSPL) to the Government for each major test required by the Stryker ECP Draft TEMP. The SSPL shall be delivered in accordance with CDRL T001 and identify all common and unique SSP requirements. The USG will provide all Stryker FOV common and MEP SSP items required for test.

C.9.3.1. The Contractor shall assemble, furnish and ship (to include packing, packaging, and transportation) the Stryker ECP unique System Support Package (SSP) to each designated test site 30 days prior to the start of test. The SSP shall include all required Contractor support parts and items. Replacement items which are not available in the SSP or were not furnished in sufficient quantities shall be provided by the contractor within 3 working days. The Contractor system support package does not include GFM related SSP support and warehouse functions (stock, store, issue, etc.).

C.9.3.2. The Contractor shall maintain a database containing all Stryker ECP unique SSP parts acquired in support of Government testing. The Contractor shall deliver an electronic file, in Contractor format, of that database as described in CDRL T003. The Contractor shall prepare an After Action Report (AAR), in Contractor format, each week noting items provided, maintenance completed, spare parts provided, items still required, and serial numbers of major components as described in CDRL T003.

C.9.4. Office Space. The Government will provide available office space for test support personnel.

C.9.4.1. The Government will provide available storage facilities for Contractor SSP at two test sites, one at the Aberdeen Test Center and the other at Yuma Proving Grounds.

C.9.5. Potential Warranty Coverage. If any part(s) removed from a vehicle during testing is later determined to be covered by a passthrough warranty included in this contract, the contractor shall credit the test support with any cost to repair or replace (whichever is applicable) the warranted asset.

C.9.6. Test Incident Reports (TIRS) and Failure Analysis & Corrective Action Reports (FACARS). During USG testing, the contractor shall be responsible for accessing the test site computer databases, primarily the Versatile Information Systems Integrated Online (VISION) Digital Library System, for all TIR data. The TIR will identify the level of defect as, Critical Defect, Major, Minor, or informational. Upon receipt of a TIR, the contractor shall determine the root cause of the failure and furnish a failure analysis with a proposed corrective action plan (FACARS) in accordance with CDRL T004. Receipt is defined as the day the TIR is posted to the database.

C.9.7. Monthly Performance Report. The contractor shall submit a monthly performance report for all work performed to support Government test in accordance with CDRL T005.

C.9.8. Configuration Management of Prototypes. The contractor shall provide quarterly reports regarding configuration of vehicles in test in accordance with CDRL T002.

C.9.9. Live Fire Testing. The contractor shall support and participate in the Government Live Fire IPTs. The contractor shall provide technical descriptions of components and their functions. The contractor shall provide spare parts sufficient to replace any damaged component during full up system (FUSL) testing to support Government planning and conduct of live fire testing.

C.9.10. Performance Standards. Failure to comply with the Section above will be documented by the COR and recorded in the Contractor Performance Assessment Report (CPAR).

C.10 Stryker FoV - Fabrication of Prototypes.

C.10.1. The contractor shall provide Stryker FoV prototypes that meet the requirements of this SOW and the Stryker FoV performance specifications as referenced in Attachment 0010 classified ANNEX Appendix 4, Survivability/Lethality Requirements Draft Rev B dated 26 April 2012. Efforts addressed in this Section C.10 for prototypes shall be performed for each variant/configuration.

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN W56HZV-14-C-B019 MOD/AMD P00001	Page 24 of 26
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Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

C.10.1.1. Producibility Analyses. The contractor shall conduct producibility engineering analyses during this phase and document the results at the TIMs.

C.10.1.2. Government Plant Facilities /Equipment. The Government will provide, on a non-interference basis, rent-free use of the Lima, Ohio Joint Systems Manufacturing Center (JSMC) and at the Scranton, Pennsylvania facility for ECP Prototype build. Non-interference, as used in this context shall mean that as long as the USG has no need for it, the contractor can use JSMC for ECP Prototype build. The contractor shall provide the following: (1) square footage of the JSMC facility attributable to Stryker production; and (2) labor hours of the JSMC facility attributable to Stryker production. The contractor shall seek Contracting Officer approval for any planned increases or decreases equal to or exceeding 10% in: (1) floor usage (i.e. square footage) attributable to Stryker production at the JSMC facility; and/or (2) labor attributable to Stryker production at the JSMC facility.

*** END OF NARRATIVE C0001 ***

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

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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 A	CDRL A001 IMPR	14-JAN-2014	001	
Exhibit B	CDRL A002 COST DATA SUMMARY REPORT (CDSR)	14-JAN-2014	001	
Exhibit C	CDRL A003 FUNCTIONAL COST HOUR REPORT (FCHR)	14-JAN-2014	001	
Exhibit D	CDRL A004 CONTRACT WORK BREAKDOWN STRUCTURE (CWBS)	14-JAN-2014	001	
Exhibit E	CDRL A005 RESOURCE DISTRIBUTION TABLE (RDT)	14-JAN-2014	001	
Exhibit F	CDRL A006 CONTRACT FUNDS STATUS REPORT (CFSR)	14-JAN-2014	001	
Exhibit G	CDRL A007 CONFIGURATION MANAGEMENT PLAN	14-JAN-2014	001	
Exhibit H	CDRL A008 ECO MATRIX MONTHLY REPORT	14-JAN-2014	001	
Exhibit J	CDRL A009 HAZMAT PARTS INVENTORY	14-JAN-2014	001	
Exhibit K	CDRL A010 HAZARDOUS MATERIALS MANAGEMENT PROGRAM/PLAN	14-JAN-2014	001	
Exhibit L	CDRL A011 HAZAROUS MATERIALS MANAGEMENT REPORT	14-JAN-2014	001	
Exhibit M	CDRL A012 USE OF LEAD FREE ELECTRICAL SOLDER REPORT	14-JAN-2014	001	
Exhibit N	CDRL A013 SAFETY ASSESSMENT REPORT (SAR)	14-JAN-2014	001	
Exhibit P	CDRL A014 SYSTEM SAFETY PROGRAM PROGRESS REPORT	14-JAN-2014	001	
Exhibit Q	CDRL A015 OPSEC TRAINING REPORT	14-JAN-2014	001	
Exhibit R	CDRL A016 ECP PROTOTYPE BUILD HARDWARE CSDR	14-JAN-2014	001	
Exhibit S	CDRL D001 INFORMATION ASSURANCE BRIEFINGS SUPPORT	14-JAN-2014	001	
Exhibit T	CDRL D002 SYSTEM INFORMATION ASSURANCE COMPLIANCE ASSESSMENT	14-JAN-2014	001	
Exhibit U	CDRL D003 CONTRACTOR SYSTEM AND SUBSYSTEMS TEST PLANS	14-JAN-2014	001	
Exhibit V	CDRL D004 SYSTEM AND SUBSYSTEM TEST REPORTS	14-JAN-2014	001	
Exhibit W	CDRL D005 SYSTEM SUBSYSTEM DOCUMENTATION	14-JAN-2014	001	
Exhibit X	CDRL D006 SOFTWARE DEVELOPMENT DOCUMENTATION	14-JAN-2014	001	
Exhibit Y	CDRL D007 SOFTWARE QUALITY ASSURANCE	14-JAN-2014	001	
Exhibit Z	CDRL D008 SOFTWARE TRANSITION PLAN	14-JAN-2014	001	
Exhibit AA	CDRL D009 SOFTWARE METRICS	14-JAN-2014	001	
Exhibit AB	CDRL D010 FIRE SUPPRESSION M&S DATA	14-JAN-2014	001	
Exhibit AC	CDRL D011 BALLISTIC VULNERABILITY M&S DATA	14-JAN-2014	001	
Exhibit AD	CDRL D012 RELIABILITY CASE REPORT	14-JAN-2014	001	
Exhibit AE	CDRL D013 CBRN SURVIVABILITY AND DECONTAMINATION COMPLIANCE	14-JAN-2014	001	
Exhibit AF	CDRL D014 MODIFIED KIT FIT-UP CORRECTIVE ACTION REPORT	14-JAN-2014	001	
Exhibit AG	CDRL D015 ECP DELTA DRAWINGS	14-JAN-2014	001	
Exhibit AH	CDRL D016 RISK MANAGEMENT STATUS REPORT	14-JAN-2014	001	
Exhibit AI	CDRL D017 ONE WIRE DIAGRAM	14-JAN-2014	001	
Exhibit AJ	CDRL D018 SOFTWARE RELEASE DELIVERABLES	14-JAN-2014	001	
Exhibit AK	CDRL D019 SUBSYSTEM ELECTRONICS AND SOFTWARE ARCHITECTURE	14-JAN-2014	001	
Exhibit AL	CDRL D020 MEETING MINUTES	14-JAN-2014	001	
Exhibit AM	CDRL D021 SOFTWARE DEVELOPMENT PLAN	14-JAN-2014	001	
Exhibit AN	CDRL D022 STRYKER VARIANT DETAILED DESIGN DRAWINGS	14-JAN-2014	001	
Exhibit AO	CDRL D023 TRANSPORTABILITY ANALYSIS	14-JAN-2014	001	
Exhibit AP	CDRL L001 LOG MGT INFO FOR LORA	14-JAN-2014	001	
Exhibit AQ	CDRL L002 LOG MGT INFO FOR RCM	14-JAN-2014	001	
Exhibit AR	CDRL L003 LOG MGT INFO FOR MARC AND BOIP, MAC	14-JAN-2014	001	
Exhibit AS	CDRL L004 LOG MGT INFO FOR PROVISIONING	14-JAN-2014	001	
Exhibit AT	CDRL L005 INTERACTIVE ELECTRONIC TECHNICAL MANUAL (IETM)	14-JAN-2014	001	
Exhibit AU	CDRL L006 PAPER OPERATOR'S TECHNICAL BULLETINS AND SOURCE MATERIAL	14-JAN-2014	001	
Exhibit AV	CDRL L007 OTHER TECHNICAL PUBLICATIONS AND SOURCE MATERIAL	14-JAN-2014	001	
Exhibit AW	CDRL L008 PUBLICATION HISTORY FILE	14-JAN-2014	001	
Exhibit AX	CDRL L009 TECH MANUALS, TECH BULLETINS AND SOURCE MATERIAL	14-JAN-2014	001	
Exhibit AY	CDRL L010 STTE, BII DRAWINGS	14-JAN-2014	001	
Exhibit AZ	CDRL L011 LOGISTICS MANAGEMENT INFO DATA PRODUCTS PACKAGING	14-JAN-2014	001	
Exhibit BA	CDRL L012 SPECIAL PACKAGING INSTRUCTIONS	14-JAN-2014	001	
Exhibit BB	CDRL L013 CONTAINER DESIGN RETRIEVAL SEARCH REQUEST	14-JAN-2014	001	
Exhibit BC	CDRL L014 REUSABLE CONTAINERS	14-JAN-2014	001	
Exhibit BD	CDRL L015 TRAINING SUPPORT PACKAGE	14-JAN-2014	001	
Exhibit BE	CDRL L016 INSTRUCTOR & KEY PERSONNEL TRAINING	14-JAN-2014	001	
Exhibit BF	CDRL L017 TRAINING TASK ANALYSIS	14-JAN-2014	001	
Exhibit BG	CDRL L018 EQUIPMENT PRESERVATION DATA SHEETS	14-JAN-2014	001	
Exhibit BH	CDRL L019 MEETINGS AND MINUTES	14-JAN-2014	001	

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 26 of 26****PIIN/SIIN** W56HZV-14-C-B019**MOD/AMD** P00001**Name of Offeror or Contractor:** GENERAL DYNAMICS LAND SYSTEMS INC.

<u>List of Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number of Pages</u>	<u>Transmitted By</u>
Exhibit BI	CDRL L020 GOVERNMENT FURNISHED MATERIAL	14-JAN-2014	001	
Exhibit BJ	CDRL T001 SYSTEM SUPPORT PACKAGE	14-JAN-2014	001	
Exhibit BK	CDRL T002 CONFIGURATION OF TEST VEHICLES	14-JAN-2014	001	
Exhibit BL	CDRL T003 SYSTEM SUPPORT PACKAGE DATABASE	14-JAN-2014	001	
Exhibit BM	CDRL T004 FAILURE ANALYSIS & CORRECTIVE ACTION REPORT	14-JAN-2014	001	
Exhibit BN	CDRL T005 MONTHLY PERFORMANCE REPORT	14-JAN-2014	001	
Exhibit BO	CDRL E001 FINAL INSPECTION REPORT	14-JAN-2014	001	
Attachment 0010	DVH SPS	14-JAN-2014	089	EMAIL

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.: A001
B. EXHIBIT: A
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A001
2. TITLE: Integrated Program Management Report (IPMR)
3. SUBTITLE: Business Management
4. AUTHORITY: DI-MGMT-81861
5. CONTRACT REFERENCE: C.3.1.3., C.3.1.5
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: D
9. DIST. STATEMENT REQ: E
10. FREQUENCY: Monthly
11. AS OF DATE: See Block 16
12. DATE OF FIRST SUBMISSION: See Block 16
13. DATE OF SUBS. SUBMISSION: See Block 16

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Block 11: Last day of contractors monthly accounting period.

Block 12: Formats 1-6 are due NLT 25 working days after the end of the second complete accounting period subsequent to the contracting officers authorization to proceed.

Block 13: (a) Formats 1-6: Due NLT the nineteenth day of the calendar month. Submissions shall continue until the last significant milestone as defined by the contract has been achieved and the effort is at least 95% complete. (b) Format 7: Due NLT the nineteenth day of the calendar month immediately following the completion of the 12th, 24th, 36th, 48th, and 60th accounting periods after contract award. A final Format 7 is due concurrent with the last Format 1 submission.

Block 14: The contractor shall submit the IPMR to the Government using the Government managed Integrated Data Environment. The contractor shall submit the IPMR to the DCARC EVM Central Repository.

Separate submission of Formats 1-4 and 7 in hours is not required. The basis of the Format 5 variance analysis shall be in dollars.

Cost XML Guidelines: Formats 1-4 shall be submitted using the DoD-approved Cost XML guideline and schema. Formats 1-4 shall be submitted in whole units (no decimals) in the XML. Format 1 WBS data in XML shall be required down to the work package level. The Cost XML shall also contain the WBS and OBS structures from the work package level to the total program level.

Formats 5 and 6 shall also be submitted in the contractors native electronic file format. Other lower level detail schedules supporting Format 6 shall be provided in their native electronic file formats.

The contractor shall provide a compressed archive back up file compiled from the contractors scheduling software with their monthly IPMR submission. The contractor shall provide a compressed archive back up file compiled from the contractors EVMS reporting software with their monthly IPMR submission.

Subcontractor IPMRs shall be submitted separately to the Government.

Format 5 Variance Thresholds:

Format 5 variance analysis shall be based on variances contained in Format 2. The following Format 2 variances apply at the OBS level. The initial thresholds are as follows, but shall be reviewed periodically and adjusted as necessary to ensure they continue to provide appropriate insight and visibility to the Government. Adjustments to the variance thresholds shall not impact the contract price. When the Government selects specific variances to report, notification will be provided no later than the first day of the accounting period. Government selected variances shall be deducted from the maximum reportable total of 15, and the selection of remaining variances for reporting shall be consistent with the data item description.

The contractor shall report the largest absolute variances that comprise the total current period absolute schedule variance until at least 80% of the total current period absolute schedule variance is explained.

The contractor shall report the largest absolute variances that comprise the total current period absolute cost variance until at least 80% of the total current period absolute cost variance is explained.

The contractor shall report the largest absolute variances that comprise the total cumulative absolute schedule variance until at least 50% of the total cumulative absolute schedule variance is explained.

Format 5 Variance Thresholds (continued):

The contractor shall report the largest absolute variances that comprise the total cumulative absolute cost variance until at least 50% of the total cumulative absolute cost variance is explained.

The contractor shall report the largest absolute variances that comprise the total absolute variance at complete until at least 50% of the total absolute variance at complete is explained.

The threshold for reporting Format 3 baseline changes in Format 5 shall be as mutually agreed.

The Format 4 Forecast at Completion variance threshold for Format 5 explanation and analysis shall be as mutually agreed.

The contractor shall use the following methodology to calculate the absolute variances and total absolute variances: For every variance reported in Format 2, the contractor shall calculate the absolute variance, where the absolute variance is defined as the square root of the variance squared. The contractor shall then sum the absolute variances to determine the total current period absolute schedule variance, total current period absolute cost variance, total cumulative absolute schedule variance, total cumulative absolute cost variance, and total absolute variance at complete.

Format 6 (Integrated Master Schedule)

-The contractor shall provide the following data fields in addition to those already required by the data item description: Early Start/Finish, Control Account Manager, Activity Lead, labor hours, material dollars, travel dollars

-Schedule Risk Assessments (SRAs) shall be provided at the Integrated Baseline Review and NLT 120 days after the contract is incrementally funded, or as otherwise agreed.

-The driving path reportable in Format 5 is defined as the next contract milestone not yet completed.

Format 7 (Electronic History and Forecast File)

-Format 7 shall be prepared at the control account level.

17. PRICE GROUP: NSP

18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Richard Gilliland

H: DATE: October 2013

I: APPROVED BY: Richard Gilliland

J: DATE: October 2013

PAGE 1 OF 1

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A. CONTRACT LINE ITEM NO.: A002
B. EXHIBIT: B
C. CATEGORY:
TDP _____ TM _____ OTHER X _____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A002
2. TITLE: Cost Data Summary Report
3. SUBTITLE: Cost and Software Data Reporting
4. AUTHORITY: DI-FNCL-81565C
5. CONTRACT REFERENCE: C.3.1.6
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: D
9. DIST. STATEMENT REQ: E
10. FREQUENCY: See Block 16
11. AS OF DATE: See Block 16
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16. REMARKS: BLK 4: DI-FNCL-81565C is tailored as follows:

Preparation Instructions:

1. General Instructions

i. Submissions will be prepared in accordance with the OSD-DDCA approved CSDR Contract Plans (Attachment 0004). Reporting level, reporting frequency, and reporting periods are contained in the CSDR Contract Plans. CSDR Contract Plans will be updated to reflect changes in the scope of work.

4. Specific Instructions: Summary Reporting Elements.

i. The CDSR shall be compatible with the DCARC CSDR Planning & Execution Tool software (<http://dcarc.pae.osd.mil/cPet/Index.aspx>).

BLK 7: The DCARC office will issue a letter stating if each CDSR submission has been accepted or rejected. Rejected CDSRs shall require resubmission, as directed in the letter.

Block 9: ADMINISTRATIVE OR OPERATIONAL USE. To protect technical or operational data or information from the automatic dissemination under the International Exchange Program or by other means. This protection covers publications required solely for official use or strictly for administrative operational purposes. This statement may be applied to manuals, pamphlets, technical orders, technical reports, and other publications containing valuable technical or operational data.

17. PRICE GROUP: NSP

18. ESTIMATED TOTAL PRICE: NSP

PIIN/SIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit B
PAGE 2

G. PREPARED BY: Richard Gilliland
H: DATE: October 2013
I: APPROVED BY: Richard Gilliland
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001

CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A003
B. EXHIBIT: C
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A003
2. TITLE: Functional Cost Hour Report (FCHR) DD Form 1921-1
3. SUBTITLE: Cost and Software Data Reporting (CSDR)
4. AUTHORITY: DI-FNCL-81566C
5. CONTRACT REFERENCE: C.3.1.6
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: D
9. DIST. STATEMENT REQ: E
10. FREQUENCY: See Block 16
11. AS OF DATE: See Block 16
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16. REMARKS: Blk 4: DI-FNCL-81566C is tailored as follows:

j. . Submissions will be prepared in accordance with the OSD-DDCA approved CSDR Contract Plans (Attachment 0004). Reporting level, reporting frequency, and reporting periods are contained in the CSDR Contract Plans. CSDR Contract Plans will be updated to reflect changes in the scope of work.

k. The FCHR shall be compatible with the DCARC CSDR Planning & Execution Tool software (<http://dcarc.pae.osd.mil/cPet/Index.aspx>).

BLK 7: The DCARC office will issue a letter stating if each FCHR submission has been accepted or rejected. Rejected FCHRs shall require resubmission, as directed in the letter.

BLK 9: ADMINISTRATIVE OR OPERATIONAL USE. To protect technical or operational data or information from the automatic dissemination under the International Exchange Program or by other means. This protection covers publications required solely for official use or strictly for administrative operational purposes. This statement may be applied to manuals, pamphlets, technical orders, technical reports, and other publications containing valuable technical or operational data..

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Richard Gilliland

PIIN/SIIN W56HZV-14-C-B019
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PAGE 2

H: DATE: October 2013
I: APPROVED BY: Richard Gilliland
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A004
B. EXHIBIT: D
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A004
2. TITLE: Contract Work Breakdown Structure
3. SUBTITLE: Business Management
4. AUTHORITY: DI-MGMT-81334D
5. CONTRACT REFERENCE: C.3.1.6, C.3.1.7.1
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: D
9. DIST. STATEMENT REQ: E
10. FREQUENCY: See Block 16
11. AS OF DATE: See Block 16
12. DATE OF FIRST SUBMISSION: See Block 16
13. DATE OF SUBS. SUBMISSION: See Block 16

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lesha.q.steed.civ@mail.mil		
Rebecca.K.Bernock.civ@mail.mil		

15. TOTAL COPIES: 4

16. REMARKS: BLOCK 4 DI-MGMT-81334D is tailored as follows:

Preparation Instructions:

3. . Submissions will be prepared in accordance with the OSD-DDCA approved CSDR Contract Plans (Attachment 0004). Reporting level, reporting frequency, and reporting periods are contained in the CSDR Contract Plans. CSDR Contract Plans will be updated to reflect changes in the scope of work.

4. In addition to the submission requirements identified in the Data Item Description, the contractor shall also submit the CWBS to the Government PMO using the Government managed Integrated Data Environment.

Block 7: The DCARC office will issue a letter stating if each CWBS submission has been accepted or rejected. Rejected CDSRs shall require resubmission, as directed in the letter.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Richard Gilliland
H: DATE: October 2013
I: APPROVED BY: Richard Gilliland

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit D
PAGE 2

J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A005
B. EXHIBIT: E
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: A005
 2. TITLE: Resource Distribution Table (RDT)
 3. SUBTITLE: Business Management
 4. AUTHORITY: DI-FNCL-81565C
 5. CONTRACT REFERENCE: C.3.1.6.2
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: D
 9. DIST. STATEMENT REQ: E
 10. FREQUENCY: See Block 16
 11. AS OF DATE: See Block 16
 12. DATE OF FIRST SUBMISSION: See Block 16
 13. DATE OF SUBS. SUBMISSION: See Block 16

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lesha.q.steed.civ@mail.mil		
Rebecca.K.Bernock.civ@mail.mil		

15. TOTAL COPIES: 4

16. REMARKS: BLK 4: DI-FNCL-81565C is tailored as follows (see the Preparation Instructions section, paragraph 2.r.ii.(2) for RDT specific requirements):

For every subcontractor and subsidiary, the contractor shall identify:

1. The total dollar value of the work assigned (known or estimated).
2. The CSDR WBS elements related to the assigned work.

BLK 9: ADMINISTRATIVE OR OPERATIONAL USE. To protect technical or operational data or information from the automatic dissemination under the International Exchange Program or by other means. This protection covers publications required solely for official use or strictly for administrative operational purposes. This statement may be applied to manuals, pamphlets, technical orders, technical reports, and other publications containing valuable technical or operational data.

BLK 10: The RDT shall be delivered whenever the funded amount on the contract is modified, but shall be no more frequently than quarterly.

BLK 11: The first RDT shall be as of the date of contract award. If subsequent RDT submissions are required in response to the funded amount on contract having been modified, submissions shall be as of the accounting month close in the months of December, March, June, and September.

BLK 12: The first RDT shall be delivered NLT 60 days after contract award.

BLK 13: If an RDT submission is required in response to the funded amount on contract having been modified, submissions shall be delivered NLT 25 working days after the accounting month close in the months of December, March, June, and September.

BLK 14: The contractor shall submit the RDT to the Government PMO using the Government managed Integrated Data Environment.

17. PRICE GROUP: NSP

18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Richard Gilliland

H: DATE: October 2013

I: APPROVED BY: Richard Gilliland

J: DATE: October 2013

PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A006
B. EXHIBIT: F
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A006
2. TITLE: Contract Funds Status Report (CFSR)
3. SUBTITLE: Business Management
4. AUTHORITY: DI-MGMT-81468
5. CONTRACT REFERENCE:
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: D
9. DIST. STATEMENT REQ: E
10. FREQUENCY: Quarterly
11. AS OF DATE: See Block 16
12. DATE OF FIRST SUBMISSION: See Block 16
13. DATE OF SUBS. SUBMISSION: See Block 16

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lesha.q.steed.civ@mail.mil			
Rebecca.K.Bernock.civ@mail.mil			

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Block 11: The CFSR shall be prepared at the end of each calendar quarter or contractor accounting period nearest the end of each quarter. The Government PCO reserves the right to increase this frequency, but such frequency will not be more often than monthly.

Block 12: Due NLT 25th day of the month subsequent to the first calendar quarter occurrence after delivery order award.

Block 13: Subsequent submissions shall occur as described for Block 11, due NLT the 25th day of the month after the as of date. Report submissions shall continue until the last significant milestone as defined by the contract has been achieved and the effort is at least 95% complete.

Block 14: The contractor shall submit the CFSR to the Government PMO using the Government managed Integrated Data Environment. The contractor shall submit the CFSR to the DCARC EVM Central Repository.

The contractor shall segregate funds data on the basis of contract type and the appropriation accounting reference. The level of reporting will be limited to only those items (e.g. CLINs or CWBS elements) needed to support funds management requirements.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Richard Gilliland
H: DATE: October 2013
I: APPROVED BY: Richard Gilliland
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A007
B. EXHIBIT: G
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A007
2. TITLE: CONFIGURATION MANAGEMENT PLAN
3. SUBTITLE: NA
4. AUTHORITY: DI-CMAN-80858B
5. CONTRACT REFERENCE: C.4.1
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: NA
11. AS OF DATE: Contract Award
12. DATE OF FIRST SUBMISSION: 6 Months after contract award
13. DATE OF SUBS. SUBMISSION: NA

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	Michael.J.Cole2.civ@mail.mil	1 1
	Richardjr.d.worth.civ@mail.mil	

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16. REMARKS: The CMP shall be Reviewed/Coordinated with the Government CM Annually

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Mike Cole
H: DATE: October 2013
I: APPROVED BY: Mike Cole
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A008
B. EXHIBIT: H
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A008
2. TITLE: ECO Matrix Monthly Report
3. SUBTITLE: NA
4. AUTHORITY: DI-CMAN-80463C
5. CONTRACT REFERENCE: C.4.2.3
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: Monthly
11. AS OF DATE: Date of Award
12. DATE OF FIRST SUBMISSION: Date of Award
13. DATE OF SUBS. SUBMISSION: See block 16

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Michael.J.Cole2.civ@mail.mil 1
richardjr.d.worth.civ@mail.mil

15. TOTAL COPIES: 1

16. REMARKS: BLOCK 4: DI-CMAN-080463C: This DID is tailored as follows:

16. For each approved ECO, ECP and changes requiring an ECARD this matrix shall include:

Change Title
Brief Description
Weight Impact
Approval Date
Classification
Retrofit Status
Estimated Break- in Point
Actual Break in Point

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Mike Cole
H: DATE: October 2013
I: APPROVED BY: Mike Cole
J: DATE: October 2013

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PAGE 2

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A009
B. EXHIBIT: J
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: A009
 2. TITLE: Vehicle Parts Containing Hazardous Materials Inventory
 3. SUBTITLE: NA
 4. AUTHORITY: DI-ILSS-81251
 5. CONTRACT REFERENCE: C.5.1, C.5.4
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: E
 10. FREQUENCY: Quarterly or within 30 days of DD250 vehicle delivery
 11. AS OF DATE: Date of contract award
 12. DATE OF FIRST SUBMISSION: 30 days after contract award
 13. DATE OF SUBS. SUBMISSION: See Block 10

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travis.j.mueller.civ@mail.mil		1	
thomas.a.boik2.ctr@mail.mil		1	

15. TOTAL COPIES: 4

16. REMARKS: The contractor shall identify and provide a separate spreadsheet or database identifying all components containing Hazardous Materials specific to each individual vehicle produced. The spreadsheet or database shall be updated to document the phased reduction of Hazardous Materials on each vehicle.

The following sections in DI-ILSS-81251 are not applicable:

10.2.2., 10.2.3, 10.2.4, 10.3

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Stephen Bails
H: DATE: October 2013
I: APPROVED BY: Stephen Bails
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A010
B. EXHIBIT: K
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A010
2. TITLE: Hazardous Material Management
3. SUBTITLE: HMMP
4. AUTHORITY: DI-MGMT-81398 Rev B
5. CONTRACT REFERENCE: C.5.1, C.5.2,
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: E
10. FREQUENCY: Single Submission
11. AS OF DATE: See block 16
12. DATE OF FIRST SUBMISSION: See block 16
13. DATE OF SUBS. SUBMISSION: NA

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16. REMARKS: BLK 12:

The contractor shall supply the draft Hazardous Material Management Plan within 60 days of contract award.

The Government shall have 30 days to review and provide comments to the contractor.

The contractor is required to address and/or incorporate all Government comments and provide a final plan for approval within 120 days after contract award.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Stephen Bails
H: DATE: October 2013
I: APPROVED BY: Dorothy Foley
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A011
B. EXHIBIT: L
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A011
2. TITLE: Hazardous Materials Management Report
3. SUBTITLE: HMMR
4. AUTHORITY: DI-MISC-81397A
5. CONTRACT REFERENCE: C.5.3
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT RQ: NA
10. FREQUENCY: Every 180 days
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: See block 16
13. DATE OF SUBS. SUBMISSION: See block 16

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16. REMARKS: The contractor shall supply the initial draft Hazardous Material Management Program/Report within 60 days of contract award.

The Government shall have 30 days to review and provide comments to the contractor. The contractor is required to address and/or incorporate all Government comments and provide a final report for approval within 120 days after contract award.

Thereafter, the contractor shall submit the report every 180 days from the initial draft submittal of the previous report. The Government shall have 30 days to review and provide comments to the contractor. The contractor is required to address and/or incorporate all Government comments and provide a final report for approval within 60 days after each HMMR initial submittal.

At the end of contract period, a final HMMR submittal is required. The final draft HMMR submission shall be 70 days prior to the end of contract date. The Government shall have 30 days to review and provide comments to the contractor. The contractor is required to address and/or incorporate all Government comments and provide a final report for approval 10 days prior to the end of contract date.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Stephen Bails
H: DATE: October 2013
I: APPROVED BY: Stephen Bails
J: DATE: October 2013
PAGE 1 OF 1

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CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A012
B. EXHIBIT: M
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A012
2. TITLE: Use of Lead-free Electrical Solder Report
3. SUBTITLE: NA
4. AUTHORITY: DI-MGMT-81772
5. CONTRACT REFERENCE: C.5.5
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: E
10. FREQUENCY: See block 16
11. AS OF DATE: See block 16
12. DATE OF FIRST SUBMISSION: See block 16
13. DATE OF SUBS. SUBMISSION: See block 16

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16. REMARKS: BLK 4: DI-MGMT-81772 is tailored as follows:
Delete Section 2 Format and replace with:
2. Format. The Use of Lead-free Electrical Solder Report shall be presented in the contractors own format.

BLKS 10, 11, 12 AND 13:
Delete Section 3 Content in its entirety and replace with:
The Use of Lead-free Electrical Solder Report shall include, the type of alternative electrical solder being used; what components the alternative electrical solder is being used on; what testing has been done to evaluate the alternative solder, and the test results.

The contractor shall supply the initial draft Use of lead-free electrical solder report within 90 days of contract award.
The Government will have 30 days to review and provide comments to the contractor. The contractor is required to address and incorporate all Government comments and provide a final report for approval within 150 days after contract award.

At the end of the contract period, a final report submittal is required.
The final draft submission shall be 70 days prior to the end of contract date. The Government shall have 30 days to review and provide comments to the contractor. The contractor is required to address and incorporate all Government comments and provide a final report for approval 10 days prior to the end of the contract date.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Stephen Bails
H: DATE: October 2013
I: APPROVED BY: Stephen Bails
J: DATE: October 2013

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PAGE 2

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- A. CONTRACT LINE ITEM NO.: A013
- B. EXHIBIT: N
- C. CATEGORY:
TDP _____ TM _____ OTHER X _____
- D. SYSTEM/ITEM: Stryker Family of Vehicles
- E. CONTRACT/PR NO.: W56HZV-14-C-B019
- F. CONTRACTOR: GDLS

-
- 1. DATA ITEM NO: A013
 - 2. TITLE: Safety Assessment Report
 - 3. SUBTITLE: NA
 - 4. AUTHORITY: DI-SAFT-80102B
 - 5. CONTRACT REFERENCE: C.6.1.1.1, C.6.1.1.2, C.6.2.
 - 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 - 7. DD250 REQ: LT
 - 8. APP CODE: NA
 - 9. DIST. STATEMENT REQ: NA
 - 10. FREQUENCY: See block 16
 - 11. AS OF DATE: See block 16
 - 12. DATE OF FIRST SUBMISSION: See block 16
 - 13. DATE OF SUBS. SUBMISSION: See block 16
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16. REMARKS: Final SAR Delivered NLT January 2015
ECP EFFORTS:

Contractor shall deliver an updated Safety Assessment Report (SAR) developed for each variant (baseline and/or DVH) to which the ECP change (s) will be incorporated on. A draft report shall be provided 120 days before delivery to a Government test site. The Government shall review and provide comments to the contractor 30 days after receipt. The final report shall be delivered 30 days prior to arrival of the variant to Government test. Not all variants may be tested, but a SAR shall be delivered for each variant receiving the ECP change (s).

The updated safety assessment report shall identify all safety features and inherent hazards, and shall establish special procedures or precautions to be observed by test agencies and system users. The safety assessment shall address maintenance, operational safety impacts, installation, and removal. Material Safety Data Sheets (MSDS) shall be included in each assessment. As an appendix to the Safety Assessment Report, the contractor shall identify and incorporate Health Hazards associated with the system. The contractor shall provide a description and discussion of each potential or actual health hazard of concern for each subsystem or component. The updated Safety Assessment Report, including the health hazards, shall identify all known safety and health features of the hardware, software, system design, and inherent hazards and shall establish operational and maintenance procedures and precautions to be observed by Government test agencies and system users.

- 17. PRICE GROUP: NSP
- 18. ESTIMATED TOTAL PRICE: NSP

-
- G. PREPARED BY: Jay Grebner
 - H. DATE: October 2013
 - I. APPROVED BY: Jay Grebner

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J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A014
B. EXHIBIT: P
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A014
2. TITLE: System Safety Program Progress Report
3. SUBTITLE: Radioactive Materials List
4. AUTHORITY: DI-SAFT-80105B
5. CONTRACT REFERENCE: C.6.3
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: NA
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: 30 Days after Contract Award
13. DATE OF SUBS. SUBMISSION: NA
14. DISTRIBUTION:

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16. REMARKS: BLK 4: DI-SAFT-80105B is tailored as follows:

Delete 10.2 Contents and replace it with the following:
Contractor shall provide a list of all radioactive materials.

The list shall include end Item with NSN and Part NSN, Part Number of Radioactive (Rad) Item, Serial Number of Rad Item, Part Name, Rad Source or Isotope, number of Rad sources and Activity.

Blk 10: Upon identification of radioactive materials.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Jay Grebner
H: DATE: October 2013
I: APPROVED BY: Jay Grebner
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001

CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A015
B. EXHIBIT: Q
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: A015
2. TITLE: OPSEC Training Report
3. SUBTITLE: NA
4. AUTHORITY: DI-MISC-81356A
5. CONTRACT REFERENCE: C .2.1
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: Annually
11. AS OF DATE: 30 September
12. DATE OF FIRST SUBMISSION: 30 September
13. DATE OF SUBS. SUBMISSION: Annually
14. DISTRIBUTION:

A. ADDRESSEE: B. COPIES:
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Cary.L.Deel.civ@mail.mil 1

15. TOTAL COPIES: 1

16. REMARKS: As stated in the DD254, the Contractor shall complete OPSEC training and submit a certificate of compliance, in accordance with DID DI-MISC-81356A validating 100% completion to the Government Security Office by 30 September.

Omit g, h, and i from the certificate of compliance

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Rebecca Bernock
H: DATE: October 2013
I: APPROVED BY: Cary Deel
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: A016
B. EXHIBIT: R
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: A016
 2. TITLE: ECP Prototype Build Hardware CSDR Crosswalk
 3. SUBTITLE: Business Management
 4. AUTHORITY: DI-SESS-81903 /T
 5. CONTRACT REFERENCE: C.3.1.9
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: D
 9. DIST. STATEMENT REQ: E
 10. FREQUENCY: See Block 16
 11. AS OF DATE: See Block 16
 12. DATE OF FIRST SUBMISSION: See Block 16
 13. DATE OF SUBS. SUBMISSION: See Block 16

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lesha.q.steed.civ@mail.mil		
Rebecca.K.Bernock.civ@mail.mil		

15. TOTAL COPIES: 2

16. REMARKS: BLK 4: DI-SESS-81903 is tailored as follows:

1. Elements a through g of the section 2.1 are replaced with Part Number, Part Nomenclature, Quantity, CSDR WBS Element Code, Work Directive/Charge Code, Budgeted Cost (BCWScum), Actual Cost (ACWPcum).
2. Elements h through r of section 2.1 are deleted.
3. Section 2.1.1 is deleted.
4. The Actual Cost data field shall be populated beginning with the third submission of this report.

Block 9: ADMINISTRATIVE OR OPERATIONAL USE. To protect technical or operational data or information from the automatic dissemination under the International Exchange Program or by other means. This protection covers publications required solely for official use or strictly for administrative operational purposes. This statement may be applied to manuals, pamphlets, technical orders, technical reports, and other publications containing valuable technical or operational data.

Block 11: The first report shall be as of the date of contract award. The second report shall be as of the ICVV Critical Design Review. The third submission shall be as of the date of acceptance of the last ICVV ECP prototype delivered. Subsequent submissions shall be as of the accounting month close in the months of March, June, September, and December.

Block 12: Due 90 days after delivery order award.

Blocks 10 and 13: The second submission shall be delivered 90 days after the ICVV Critical Design Review. The third submission shall be delivered 90 days after U.S. Government acceptance of the last ICVV ECP prototype. Subsequent submissions shall be delivered NLT 25 working days after the accounting month close in the months of March, June, September, and December. Submissions shall continue until two complete calendar quarters have passed after delivery of the last ECP prototype.

Block 14: The contractor shall submit data to the Government using the Government managed Integrated Data Environment.

- 17. PRICE GROUP: NSP
- 18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Richard Gilliland
H: DATE: October 2013
I: APPROVED BY: Richard Gilliland
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001

CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D001
B. EXHIBIT: S
C. CATEGORY:
TDP _____ TM _____ OTHER X _____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D001
2. TITLE: Information Assurance Report
3. SUBTITLE: NA
4. AUTHORITY: DI-MISC-80711A
5. CONTRACT REFERENCE: C.7.1.4.1
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: As required, Maximum 3
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: See block 16
13. DATE OF SUBS. SUBMISSION: NA

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	macam.s.dattathreya.civ@mail.mil	

15. TOTAL COPIES: 1

16. REMARKS: Block 4: DI-MISC-80711A is tailored as follows:
Delete section 10.2.

Upon written request from the PMO SBCT, the contractor shall deliver an IA technical report to support USG mandated Information Assurance (IA) compliance and IA accreditation reviews for the Stryker FoV.

The report shall describe and/or depict Stryker FoV IA data requested.

The contractor shall deliver IA report(s) no later than 30 days after written notification from PMO SBCT.

The report shall be in Microsoft PowerPoint format. The report may contain links or attachments to files in other Microsoft Office formats or other product formats which are mutually agreed to by the PMO SBCT and the contractor.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Douglas Gersky
H: DATE: October 2013
I: APPROVED BY: Douglas Gersky
J: DATE: October 2013
PAGE 1 OF 1

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit S
PAGE 2

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D002
B. EXHIBIT: T
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: D002
 2. TITLE: Information Assurance Design Review Information Package (DRIP)
 3. SUBTITLE: NA
 4. AUTHORITY: DI-MGMT-81845
 5. CONTRACT REFERENCE: C.7.1.4.2
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: NA
 10. FREQUENCY: See Block 16
 11. AS OF DATE: NA
 12. DATE OF FIRST SUBMISSION: See block 16
 13. DATE OF SUBS. SUBMISSION: See block 16

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Richardjr.d.worth.civ@mail	1 douglas.j.gersky.civ@mail.mil

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16. REMARKS:

The contractor shall deliver a Stryker Information Assurance (IA) Design Review Information Package (DRIP) for the ECP effort.

First Submission: The contractor shall deliver the DRIP no later than 15 days after the ECP efforts Critical Design Review (CDR).

Subsequent Submission: The contractor shall deliver an updated DRIP no later than 15 days after ECP efforts Test Readiness Review (TRR).

The Contractor shall deliver the DRIP in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

The structure of all deliverable system design analysis documentation shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO/IEC standard or other commercial document format. Where no Government DID is available an alternate IEEE/ISO/IEC standard has been specified.

1. IA Design Review Information Package (DRIP); DI-MGMT-81845.

Additional Instructions:

- A. The contractor will read all DI-MGT-81845 references to ship as Stryker FOV.
- B. The contractor may propose the deletion of specific DI-MGMT-81845 content items deemed not to be applicable to the Stryker FOV. The contractor shall provide a content deletion request to the government no later than 30 days after ECP phase II contractor award. The government will provide a response to the content deletion request within 10 days of receipt of the request. Per DI-MGT-81845, Section 2.3, item a, Applicable DoDI 8500.2 IA Controls, for this deliverable are those specified in SOW section C.7.2.1.4.3

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Douglas Gersky
H: DATE: October 2013
I: APPROVED BY: Douglas Gersky
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
 CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D003
 B. EXHIBIT: U
 C. CATEGORY:
 TDP ____ TM ____ OTHER X____
 D. SYSTEM/ITEM: Stryker Family of Vehicles
 E. CONTRACT/PR NO.: W56HZV-14-C-B019
 F. CONTRACTOR: GDLS

 1. DATA ITEM NO: D003
 2. TITLE: Contractor System and Subsystem Test Plans
 3. SUBTITLE: Engineering Analysis
 4. AUTHORITY: DI-SESS-81704
 5. CONTRACT REFERENCE: C.7.1.7.2
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: C
 10. FREQUENCY: Initial and Final
 11. AS OF DATE: NA
 12. DATE OF FIRST SUBMISSION: 30 days prior to test event
 13. DATE OF SUBS. SUBMISSION: See block 16

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Bernard.j.larkin.civ@mail.mil	1	1	1	

15. TOTAL COPIES: 8

16. REMARKS: The vehicle system/subsystem test plan(s) shall address the following, if applicable, for each test to be performed:

- a. Use of modeling and simulation to support test approach.
- b. Use of system integration laboratories.
- c. Integration Readiness Levels (IRLs) of the technologies required to address the 4 key improvement areas as defined in the Phase 2 statement of work

Individual sub-system plans will be submitted separately from system level, or vehicle, plans.

All test procedures developed for Stryker FoV system integration validation, verification, and regression testing shall be included in this delivery.

The approved plan(s) shall be provided in contractor format and delivered electronically in Microsoft Word format to the USG NLT 30 days prior to start of any test(s).

17. PRICE GROUP: NSP
 18. ESTIMATED TOTAL PRICE: NSP

 G. PREPARED BY: Richard Worth
 H: DATE: October 2013
 I: APPROVED BY: Richard Worth
 J: DATE: October 2013
 PAGE 1 OF 1

PIIN/SIIN W56HZV-14-C-B019
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PAGE 2

DD FORM 1423, FEB 2001
 CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D004
 B. EXHIBIT: V
 C. CATEGORY:
 TDP ____ TM ____ OTHER X ____
 D. SYSTEM/ITEM: Stryker Family of Vehicles
 E. CONTRACT/PR NO.: W56HZV-14-C-B019
 F. CONTRACTOR: GDLS

1. DATA ITEM NO: D004
 2. TITLE: System and Subsystem test reports
 3. SUBTITLE: Engineering Analysis
 4. AUTHORITY:
 5. CONTRACT REFERENCE: C.7.1.5.1.2, C.7.1.7.1., C.7.1.7.4
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: C
 10. FREQUENCY: One report per Demonstration
 11. AS OF DATE: NA
 12. DATE OF FIRST SUBMISSION: NLT 30 days after the end of each test
 13. DATE OF SUBS. SUBMISSION: See block 16

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patrick.j.foley24.civ@mail.mil	1			

15. TOTAL COPIES: 8

16. REMARKS:

The contractor shall deliver test reports for each test conducted for the phase II ECP effort no later than 30 days after the end of each test to the Government.

The Contractor shall deliver all test reports in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

The structure of all deliverable test reports listed below shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO/IEC standard or other commercial document format. Where no Government DID is available an alternate IEEE/ISO/IEC standard has been specified.

1. System and Subsystem Test Reports; DI-QCIC-81891.

The reports shall also include data from the test. All data collected during testing shall be included in tabulated format as an appendix to the report, and in an included excel file.

Contractor UIR Summaries shall be provided as appendix to the report in contractor format to include any incident reported during contractor testing and details of corrective actions taken.

17. PRICE GROUP: NSP
 18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Kevin Kasa
 H: DATE: October 2013

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit V
PAGE 2

I: APPROVED BY: Kevin Kasa
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D005
B. EXHIBIT: W
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: D005
 2. TITLE: Systems and Sub-Systems Documentation
 3. SUBTITLE: NA
 4. AUTHORITY: SEE BLOCK 16
 5. CONTRACT REFERENCE: C.7.1.8.1
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: NA
 10. FREQUENCY: See block 16
 11. AS OF DATE: See block 16
 12. DATE OF FIRST SUBMISSION: See block 16
 13. DATE OF SUBS. SUBMISSION: See block 16

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15. TOTAL COPIES: 3

16. REMARKS: The contractor shall deliver the following set of vehicle electronics development documentation for the phase II ECP effort no later than 15 days after the Critical Design Review (CDR) and again no later than 15 days after the Production Readiness Review (PRR).

The contractor shall deliver all vehicle electronics documentation in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

The structure of all deliverable software documentation listed below shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO/IEC standard or other commercial document format. Where no Government DID is available an alternate IEEE/ISO/IEC standard has been specified.

1. System/Subsystem Design Descriptions (SSDD); DI-IPSC-81432A
 - a. Alternate allowed per DI-IPSC-81432A section 3.g
2. Sub-System Performance Specifications (SSPS); <No DID Available>
 - a. Department of Defense Document (DoDD) SD-15, Guide for Performance Specifications
3. Commercial Item Descriptions (CID); <No DID Available>
 - a. DoDD SD-15, Guide for Performance Specifications.
 - b. IEEE 1515-2000, IEEE Recommended Practice for Electronics Power Subsystems; Parameter Definitions, Test Conditions, and Test Methods.
4. Interface Control Documents (ICD); DI-CMAN-81428A
 - a. Alternate allowed per DI-CMAN-81428A Requirement 2.
5. Interface Design Descriptions (IDD); DI-IPSC-81436

a. Alternate allowed per DI-IPSC-81436 section 10.1.i

Additional Instructions:

A. For the SSPS (item #2) and the CID (item #3) deliverables, government DIDs or direct commercial standards are not available. The alternates listed are development guidance material for engineering documents of this type.

B. The contractor shall use DoDD SD-15 as the preferred guidance document for the development of these items. The contractor may use IEEE 1515-2000 as additional guidance for item #3, for contractor developed components covered by this IEEE recommended practices document.

C. A definition of a Commercial Item Description (CID) is provided in DoDD SD-15, chapter 3.

17. PRICE GROUP: NSP

18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Gersky

H: DATE: October 2013

I: APPROVED BY: Doug Gersky

J: DATE: October 2013

PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D006
B. EXHIBIT: X
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: D006
 2. TITLE: Software Development Documentation
 3. SUBTITLE: NA
 4. AUTHORITY: SEE BLOCK 16
 5. CONTRACT REFERENCE: C.7.1.8.2,
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: NA
 10. FREQUENCY: See block 16
 11. AS OF DATE: See block 16
 12. DATE OF FIRST SUBMISSION: See block 16
 13. DATE OF SUBS. SUBMISSION: See block 16

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15. TOTAL COPIES: 3

16. REMARKS: The contractor shall deliver the following set of software development documentation for the phase II ECP effort no later than 15 days after the Critical Design Review and again no later than 10 days after every release of the Stryker Family of Vehicles (FoV) system software to the Government.

The Contractor shall deliver all software documentation in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

The structure of all deliverable software documentation listed below shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO/IEC standard or other commercial document format. Where no Government DID is available an alternate IEEE/ISO/IEC standard has been specified.

1. Software Requirements Specifications (SRS); DI-IPSC-81433.
 - a. Alternate allowed per DI-IPSC-81433 section 10.1.i
2. Interface Requirements Specifications (IRS); DI-IPSC-81434.
 - a. Alternate allowed per DI-IPSC-81434 section 10.1.i
3. Software Test Plans (STP); DI-IPSC-81438
 - a. Alternate allowed per DI-IPSC-81434 section 10.1.i
4. Software Design Documents (SDD); DI-IPSC-81435
 - a. Alternate allowed per DI-IPSC-81435 section 10.1.i
5. Interface Design Descriptions (IDD); DI-IPSC-81436
 - a. Alternate allowed per DI-IPSC-81436 section 10.1.i

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Gersky
H: DATE: October 2013
I: APPROVED BY: Doug Gersky
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D007
B. EXHIBIT: Y
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D007
2. TITLE: Software Quality Assurance Plan
3. SUBTITLE: NA
4. AUTHORITY: SEE BLOCK 16
5. CONTRACT REFERENCE: C.7.1.8.5
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: See block 16
11. AS OF DATE: See block 16
12. DATE OF FIRST SUBMISSION: See block 16
13. DATE OF SUBS. SUBMISSION: See block 16

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15. TOTAL COPIES: 3

16. REMARKS: The contractor shall deliver an ECP effort Software Quality Assurance Plan (SQAP) no later than 45 days after the ECP Phase II contract award.

Following the contractors first submission, PMO SBCT will review the SQAP; providing comments back to the contractor within 15 days. The contractor shall submit a response to PMO SBCT comments no later than 15 days after receipt.

The Contractor shall prepare the deliverable in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

The structure of all deliverable documentation listed below shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO standard or commercial document format. Where no Government DID is available an alternate IEEE/ISO standard has been specified.

1. Software Quality Assurance Plan (SQAP); <No DID available>.
a. Alternate: IEEE Standard 730, IEEE Standard for Quality Assurance Plans.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Gersky
H: DATE: October 2013
I: APPROVED BY: Doug Gersky
J: DATE: October 2013
PAGE 1 OF 1

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ATT/EXH ID Exhibit Y
PAGE 2

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D008
B. EXHIBIT: Z
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D008
2. TITLE: Software Transition Plan (STRP)
3. SUBTITLE: NA
4. AUTHORITY: DI-IPSC-81429A
5. CONTRACT REFERENCE: C.7.1.8.6
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: Twice
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: 15 days after CDR
13. DATE OF SUBS. SUBMISSION: 15 days after PRR

14. DISTRIBUTION:

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15. TOTAL COPIES: 3

16. REMARKS: Date of First Submission (Phase II): The contractor shall deliver a Software Transition Plan (STRP) for the Phase II ECP effort no later than 15 days after the ECP efforts Critical Design Review (CDR).

Date of Subsequent Submission (Phase II): The contractor shall deliver a revised STRP no later than 15 days after the contractors Production Readiness Review (PRR). The revised STRP shall address any variances to software transition planning introduced since STRP date of first submission.

Following each of the contractors STRP submissions, PMO SBCT will review the STRP and provide comments back to the contractor within 15 days. The contractor shall submit a response to the PMO SBCT comment no later than 15 days after receipt.

The Contractor shall deliver all software documentation in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

The structure of all deliverable software documentation listed below shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO/IEC standard or other commercial document format. Where no Government DID is available an alternate IEEE/ISO/IEC standard has been specified.

- 1. Software Transition Plan (STRP); DI-IPSC-81429A.
- a. Alternate allowed per DI-IPSC-81429A section 4.g

Additional Instructions:

A. For the purpose of this CDRL the support agency referred to in DI-IPSC-81429A is PMO SBCT.

B. The STRP shall document the software transition process, at a minimum, down to the level of the contractors first tier sub-contractors.

C. The STRP shall include a listing and a short description of each Computer Software Configuration Items (CSCI), supplied by the contractor and its first tier sub-contractors.

D. The STR shall include the Contractors determination of the U.S. Governments Technical Data Rights, for all CSCIs and those CSCIs constituent software modules, supplied by either the contractor or its first tier subcontractor(s).

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Gersky
H: DATE: October 2013
I: APPROVED BY: Doug Gersky
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D009
B. EXHIBIT: AA
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D009
2. TITLE: Software Metrics
3. SUBTITLE: NA
4. AUTHORITY: See Block 16.
5. CONTRACT REFERENCE: C.7.1.8.7
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: Per metric type. See Block 16
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: Per metric type.
See Block 16
13. DATE OF SUBS. SUBMISSION: Thursday of delivery week for each metric.

14. DISTRIBUTION:

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	Richardjr.d.worth.civ@mail	1 douglas.j.gersky.civ@mail.mil 1

15. TOTAL COPIES: 3

16. REMARKS: The contractor shall deliver Software Metrics for the ECP Phase II effort.

The Contractor shall deliver all software metrics in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof. A software metric requiring a specific delivery format will be cited in the metric description.

The structure of all deliverable software documentation shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO/IEC standard or other commercial document format. Where no Government DID is available an alternate IEEE/ISO/IEC standard has been specified.

1. Software Metrics; <No DID Available>
- a. Alternate: IEEE Standard 1045-1992, IEEE Standard for Software Productivity Metrics.
- b. Alternate: ISO/IEC TR 9126-2:2003, Software Engineering Product Quality Part 2: External Metrics
- c. Alternate: ISO/IEC TR 9126-3:2003, Software Engineering Product Quality Part 3: Internal Metrics
- d. Alternate: ISO/IEC TR 9126-4:2004, Software Engineering Product Quality Part 4: Quality in use Metrics
2. Utilizing the IEEE/ISO/IEC standards cited above as guidance, the contractor shall deliver the software metrics listed below. At the date of first submission, the contractor may propose alternate and/or modified software metrics or formats other than those listed. The government will respond to the contractor proposed alternates/modifications within 10 days.
3. The content of each metric, date of first submission, and subsequent delivery rate is specified per metric type listed below.

Note: The document, Future Combat Systems (FCS) Software Measurement Plan (SMP); D786-10252-1 Rev B, 30 March 2005, was used by PMO SBCT personnel in development of the metrics below and their formats. This document will be made available to the contractor upon request.

Metrics List:

1. Source Lines of Code (SLOC):

First Submission: When initial s/w baseline is released from GDLS configuration management (CM); e.g. v0.1.
Delivery Rate: When each subsequent s/w baseline is released from GDLS CM; e.g. v0.2, v0.3, \ '85 ,v1.0]

- a. SLOC Count
 - i. Generated for every software module (CSCI)
 - ii. Develop estimated count for each software module (CSCI)
 - iii. Used to develop maintenance cost estimates
- b. SLOC Types
 - i. New - First implementation of code
 - ii. Modified - Previously developed code with changes which will alter the codes function
 - iii. Reuse - Previously developed code with limited changes which will not alter the codes function
- c. Measurable(s)
 - i. Total lines of code
 - ii. Estimated lines of code required
- d. Metric Calculation
 - i. $\{[(\text{estimated lines total lines}) / \text{estimated lines}] * 100$
- e. Metric Status Thresholds
 - i. Green - Less than or equal to 5%
 - ii. Yellow - Greater than 5% and less than or equal to 10%
 - iii. Red - Greater than 10%
- 2. Requirements Stability:

First Submission: When initial s/w baseline is released from GDLS configuration management (CM); e.g. v0.1.
Delivery Rate: When each subsequent s/w baseline is released from GDLS CM; e.g. v0.2, v0.3, \ '85 ,v1.0]

- a. Measurable(s)
 - i. Requirements deleted
 - ii. Requirements added
 - iii. Requirements modified
 - iv. Total planned requirements
- b. Metric Calculation
 - i. $\{(\text{total planned total deleted, added, modified}) / \text{total planned}\} * 100$
- c. Metric Status Thresholds
 - I. Green - Greater than or equal to 97%
 - II. Yellow - Less than 97% and greater than or equal to 92%
 - III. Red - Less than 92%
- 3. Processor Throughput Utilization:

First Submission: When initial s/w baseline is released from GDLS configuration management (CM); e.g. v0.1.
Delivery Rate: When each subsequent s/w baseline is released from GDLS CM; e.g. v0.2, v0.3, \ '85 ,v1.0]

- a. Measureable(s)
 - i. Average throughput demand
 - ii. Peak throughput demand
 - iii. Performance capability
 - iv. Peak Processor Load
- b. Metric Calculation
 - i. $\{(\text{performance capability average demand}) / \text{performance capability}\} * 100$
 - ii. $\{(\text{performance capability peak demand}) / \text{performance capability}\} * 100$
- c. Metric Status Thresholds
 - i. Green
 - 1. Average - Greater than or equal to 30%
 - 2. Peak - Greater than or equal to 15%
 - ii. Yellow
 - 1. Average - Less than 30% and greater than or equal to 15%
 - 2. Peak - Less than 15% and greater than or equal to 10%
 - iii. Red
 - 1. Average - Less than 15%
 - 2. Peak - Less than 10%
- 4. Memory Utilization:

First Submission: When initial s/w baseline is released from GDLS configuration management (CM); e.g. v0.1.
Delivery Rate: When each subsequent s/w baseline is released from GDLS CM; e.g. v0.2, v0.3, \ '85 ,v1.0]

- a. Measureable(s)
- i. Memory available
- ii. Memory required
- iii. Peak Memory Usage
- b. Metric Calculation
- i. $\{(memory\ available\ -\ memory\ required)\ / \ memory\ required\} * 100$
- c. Metric Status Thresholds
- i. Green - Greater than or equal to 30%
- ii. Yellow - Less than 30% and greater than or equal to 15%
- iii. Red - Less than 15%

5. Databus Utilization:

First Submission: When initial s/w baseline is released from GDLS configuration management (CM); e.g. v0.1.
Delivery Rate: When each subsequent s/w baseline is released from GDLS CM; e.g. v0.2, v0.3, \ '85 ,v1.0]

- a. Measureable(s)
- i. Average databus usage
- ii. Peak databus usage
- iii. Databus performance capability
- iv. Transmission error rate
- v. Average transmission time
- b. Metric Calculation
- i. $\{(performance\ capability\ -\ average\ usage)\ / \ performance\ capability\} * 100$
- ii. $\{(performance\ capability\ -\ peak\ usage)\ / \ performance\ capability\} * 100$
- c. Metric Status Thresholds
- i. Green
- 1. Average - Greater than or equal to 30%
- 2. Peak - Greater than or equal to 15%
- ii. Yellow
- 1. Average - Less than 30% and greater than or equal to 15%
- 2. Peak - Less than 15% and greater than or equal to 10%
- iii. Red
- 1. Average - Less than 15%
- 2. Peak - Less than 10%

6. Staffing Profile:

First Submission: 30 days after contract award.
Delivery Rate: Monthly after first submission.

- a. Measureable(s)
- i. Total staff
- ii. Estimated staff required
- b. Metric Calculation
- i. $\{[(estimated\ staff\ -\ total\ staff)] / \ total\ staff\} * 100$
- c. Metric Status Thresholds
- i. Green - Less than or equal to 5%
- ii. Yellow - Greater than 5% and less than or equal to 15%
- iii. Red - Greater than 15%

7. Software Issue Tracking:

First Submission: When initial s/w baseline is released from GDLS configuration management (CM); e.g. v0.1.
Delivery Rate: Every two weeks after first submission.

- a. This metric shall be delivered in Microsoft Excel format in addition to any other contractor selected formats.

- b. The contractor shall provide a s/w issue list consisting of the following information:
- i. Unique issue identifier
 - ii. USG TIR number (when applicable)
 - iii. Title
 - iv. Description
 - v. Date reported/created
 - vi. Date of last issue update
 - vii. Date closed
 - viii. State (e.g. review, open, retest, verify, etc)
 - ix. Cumulative days in Open state
 - x. Open State threshold from metric table 7c below.
 - xi. Severity level
 - xii. Type (S/W or S/W Documentation)
 - xiii. CSCI or S/W document identifier (base on Type)
- c. Measurable(s)
- i. Total issues reported
 - ii. Total issues closed
 - iii. Total issues reported per State, per Severity, per Type (CSCI or S/W Documentation), per CSCI or S/W Document (based on Type)
 - iv. Rate of issue closure
 - v. Average time in States per CSCI
 - vi. Average time in States for S/W Documentation Type
 - vii. Total issues returned to Open state
- d. Example Metric - Issue Days in Open State Thresholds
- i. Thresholds may be set based on contractors internal software engineering processes. Thresholds listed are for example purposes only.
 - ii. Severity assignment method may be based on contractors internal software engineering processes. 3 level severity assignments shown are for example purposes only.

	Days in Open State (D)				
Severity	D <= 14	14 < D < 30	D < 90	90 < D < 180	D > 180
1					
2					
3					

17. PRICE GROUP: NSP
 18. ESTIMATED TOTAL PRICE: NSP

 G. PREPARED BY: Doug Gersky
 H: DATE: October 2013
 I: APPROVED BY: Doug Gersky
 J: DATE: October 2013
 PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D010
B. EXHIBIT: AB
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D010
2. TITLE: Fire Suppression M&S Data
3. SUBTITLE: NA
4. AUTHORITY: DI-SESS-81002F
5. CONTRACT REFERENCE: C.7.1.11
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: C
10. FREQUENCY: Twice
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: 180 after PDR
13. DATE OF SUBS. SUBMISSION: Upon Request (2X)

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	Thomas.a.Howie.civ@mail.mil	1

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16. REMARKS: Block 4: DI-SESS-81002F is tailored as follows:

Delete TDP Option Selection Worksheet. Delete Requirements block 2-4.

The contractor shall provide the following data to support USG fire suppression M&S:

1. A list of the Stryker DVH vehicle variants that need to be simulated.
 - a. CAD models for the interior of each variant that include the engine and crew AFES components, and address the hatches, occupants, stowage plan(s) and other space claim variables.
 2. The following data are required for any changes beyond the baseline fielded DVH vehicle.
 - a. Operating temperatures and altitude ranges of the vehicle.
 - b. Extinguisher cylinder size, amount of agent, charge pressure and plumbing details (e.g, hose inner area and length).
 - c. Distribution nozzle description (droplet velocity vs. time, cone angle vs. time, droplet size distribution vs. time, flow rate vs. time).
 - d. Fire threats based on a hazard assessment that can be reduced to simulation variables (fuel flow rate, ignition source, etc.) for crew and engine compartments.
 - e. Max POL and engine surface temperatures.
 - f. Air flow maps of engine and crew areas for minimum and maximum rates.
 - g. HVAC and equipment cooling information (blower characteristics, A/C capacity, amount of fresh air, cabin leakage curves).
3. The contractor shall deliver all CAD models in native CAD and either STEP or IGES files.

17. PRICE GROUP: NSP

18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Jeffery Mosley

H: DATE: October 2013

I: APPROVED BY: Jeffery Mosley

J: DATE: October 2013

PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D011
B. EXHIBIT: AC
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D011
2. TITLE: Ballistic Vulnerability M&S Data
3. SUBTITLE: Ballistic Characterization Data
4. AUTHORITY: DI-SESS-81002F
5. CONTRACT REFERENCE: C.7.1.11
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: C
10. FREQUENCY: Twice
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: 180 after PDR
13. DATE OF SUBS. SUBMISSION: Upon Request (2X)

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	Jeffery.Mosley@us.army.mil	1
		Thomas.a.Howie.civ@mail.mil 1

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16. REMARKS: Block 4: DI-SESS-81002F is tailored as follows:

Delete TDP Option Selection Worksheet. Delete Requirements block 2-4.

The contractor shall provide the following data to support USG ballistic vulnerability M&S:

1. A list of the Stryker DVH vehicle variants that need to be simulated.
 - a. CAD models for the exterior and interior of each variant that includes the engine and crew compartments, and address the hatches, occupants, stowage plan(s) and other space claim variables.

1. The following data are required for any changes beyond the baseline fielded DVH vehicle.
 - a. Armor geometries and recipes.
 - b. Repositioning of components.
 - c. Critical failure modes.
 - d. Volumes for POL and stowed combustibles.

2. The contractor shall deliver all CAD models in native CAD and either STEP or IGES files.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Jeffery Mosley
H: DATE: October 2013
I: APPROVED BY: Jeffery Mosley
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D012
B. EXHIBIT: AD
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D012
2. TITLE: Reliability Case Report
3. SUBTITLE: NA
4. AUTHORITY: DI-NDTI-81585A
5. CONTRACT REFERENCE: C.7.1.15.2
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: See Block 16
11. AS OF DATE: See Block 16
12. DATE OF FIRST SUBMISSION: 30 days before CDR
13. DATE OF SUBS. SUBMISSION: See Block 16

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Michael.d.croke.civ@mail.mil	1		
Edward.schoun@us.army.mil	1		

15. TOTAL COPIES: 4

16. REMARKS: BLK 4: DI-NDTI-81585A is tailored as follows:

Deleted:
Sections 3.a-r

The Contractor shall submit a Reliability Case Report in Contractor Format to the USG for evaluation and approval 30 days before CDR. The Government will have 30 days from receipt of the report to submit any comments. The Contractor shall submit the final report within 30 days of receipt of Government comments.

Content - The report shall contain:

- a. Product Description A description which reflects the system being reported on such as physical characteristics and interface boundaries, etc.
- b. Reliability Requirements This section describes the rationale for the requirements and the Contractors progress towards meeting the program requirements. It should show the latest estimate of the products reliability and maintainability. Changes from previous Status Reports should be highlighted.
- c. Reliability Risk Area This section identifies the risk areas associated with striving to achieve the product reliability requirement and how these risks have been managed since the last status report.

d. Reliability Program Changes This section identify the changes made to the reliability program since the last Status Report and any intended changes in the remaining period prior to delivery of the product.

e. Reliability Evidence This section summarize the evidence gathered during the program from the various Reliability activities undertaken. This section should discuss the status and outcomes of Reliability activities for (1) the identification, analysis, classification and mitigation of failure modes for ECP components (2) identification, analysis, classification and mitigation of failure modes for historically prevalent failures observed during reliability testing (i.e. Class III Engine Oil/Coolant Leaks, E-W Drive Shaft (Half Shafts), Differentials , Wheel Hubs, Height Management System) (3) identification, analysis, classification and mitigation of failure modes pertaining to idle time in the OMS/MP (4) identify critical elements in the system design and additional design or testing activities required in order to achieve the reliability requirements (5) provide mitigation plans for critical elements (6) provide evidence of mitigation via design changes or test results or both in monthly updates until critical elements are fully mitigated.

f. Reliability Claims This section shall provide the rationale and/or justification as to why each of the requirements will be met in service, based on the evidence and any assumptions. All assumptions should be listed explicitly.

- 17. PRICE GROUP: NSP
- 18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Mike Croke
H: DATE: October 2013
I: APPROVED BY: Mike Croke
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D013
B. EXHIBIT: AE
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D013
2. TITLE: CBRN Survivability and Decontamination Compliance Report
3. SUBTITLE: NA
4. AUTHORITY: DI-MISC-80711A
5. CONTRACT REFERENCE: C.7.1.16.
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: Once
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: 45 days prior to CDR
13. DATE OF SUBS. SUBMISSION: NA

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scott.p.hill12.civ@mail.mil		

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16. REMARKS: Block 4: DI-MISC-80711A is tailored as follows:
Delete section 10.2.

The report shall detail each Stryker variants compliance with the CBRN SPS requirements including INWE (Initial Nuclear Weapons Effects).

The contractor shall deliver the report in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Mike Cole
H. DATE: October 2013
I. APPROVED BY: Mike Cole
J. DATE: October 2013
PAGE 1 OF 1

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit AE
PAGE 2

DD FORM 1423, FEB 2001

CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D014
B. EXHIBIT: AF
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D014
2. TITLE: Modified Kit Fit-up Corrective Action Report
3. SUBTITLE: NA
4. AUTHORITY: DI-MISC-80711A
5. CONTRACT REFERENCE: C.7.2.1.6.1
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: Twice
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: See block 16
13. DATE OF SUBS. SUBMISSION: See block 16

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richard.d.worth4.civ@mail.mil		1

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16. REMARKS: Block 4: DI-MISC-80711A is tailored as follows:
Delete section 10.2.

Contractor shall document any interferences or incompatibilities of kits for the ECP vehicle and outline corrective actions to be taken to modify kits to be accommodated on the ECP vehicle.

Reports will specify which variants are affected and be delivered in contractors format. The contractor shall deliver all assessments in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

Date of Submission: 30 days after initial and second fit-ups.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Mike Cole
H: DATE: October 2013
I: APPROVED BY: Mike Cole
J: DATE: October 2013
PAGE 1 OF 1

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MOD/AMD P00001
ATT/EXH ID Exhibit AF
PAGE 2

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CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D015
B. EXHIBIT: AG
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D015
2. TITLE: ECP Kit Drawing
3. SUBTITLE: NA
4. AUTHORITY: DI-SESS-81002F
5. CONTRACT REFERENCE: C.7.1.7.6
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: Once
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: See block 16
13. DATE OF SUBS. SUBMISSION: NA

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	Bobby.J.Buckley2.civ@mail.mil	1

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16. REMARKS: Block 4: DI-SESS 81002F is tailored as follows:

Delete TDP Option Selection Worksheet. Delete Requirements blocks 3 and 4.

Contractor shall provide Type 2D production level drawings of any DVH kits modified for the ECP vehicle.

Contractor shall provide Type 2D production level drawings of any delta kits necessary for the ECP vehicle to accommodate government specified kits on the vehicle.

In addition, the contractor shall provide production level drawings for the next lower assembly, for the ECP delta kits.

Reports shall specify which variants are affected and be delivered in Adobe pdf or MS Visio format.

Date of Submission: 30 days before CDR.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Mike Cole
H: DATE: October 2013
I: APPROVED BY: Mike Cole
J: DATE: October 2013

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit AG
PAGE 2

DD FORM 1423, FEB 2001

CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D016
B. EXHIBIT: AH
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D016
2. TITLE: Risk Management Status Report
3. SUBTITLE: NA
4. AUTHORITY: DI-MGMT-81809
5. CONTRACT REFERENCE: C.7.2.7.2.
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: NO
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: See block 16
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: 2 weeks after contract award
13. DATE OF SUBS. SUBMISSION: See block 16

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	michael.j.cole2.civ@mail.mil	1

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16. REMARKS: Block 4: DI-MGMT 81809 is tailored as follows:

Delete 1.

The report shall be in Microsoft Excel and PowerPoint format.

The Contractor shall address technical (T) risk.

Delete 3.

The report shall be in Microsoft Excel and PowerPoint format.

Block 10:

Technical risk report shall be submitted when risk occurs

Cost, performance and schedule risk submission is monthly.

17. PRICE GROUP: NSP

18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Worth
H: DATE: October 2013
I: APPROVED BY: Doug Worth
J: DATE: October 2013
PAGE 1 OF 1

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit AH
PAGE 2

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

- A. CONTRACT LINE ITEM NO.: D017
- B. EXHIBIT: AI
- C. CATEGORY:
TDP _____ TM _____ OTHER X _____
- D. SYSTEM/ITEM: Stryker Family of Vehicles
- E. CONTRACT/PR NO.: W56HZV-14-C-B019
- F. CONTRACTOR: GDLS

-
- 1. DATA ITEM NO: D017
 - 2. TITLE: One-Wire Diagrams
 - 3. SUBTITLE: NA
 - 4. AUTHORITY: SEE BLOCK 16
 - 5. CONTRACT REFERENCE: C.7.1.8.1.
 - 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 - 7. DD250 REQ: LT
 - 8. APP CODE: NA
 - 9. DIST. STATEMENT REQ: NA
 - 10. FREQUENCY: Twice
 - 11. AS OF DATE: NA
 - 12. DATE OF FIRST SUBMISSION: NLT 30 Days post CDR
 - 13. DATE OF SUBS. SUBMISSION: Final submission shall be NLT 30 days post TRR

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	douglas.j.gersky.civ@mail.mil	1

15. TOTAL COPIES: 3

16. REMARKS: The contractor shall deliver One-Wire Diagrams for the phase II ECP effort no later than 30 days after the Critical Design Review (CDR) and again no later than 30 days after the TRR to the Government.

The Contractor shall deliver all One-Wire Diagrams in both Adobe PDF and Microsoft Visio formats.

The structure of all One-Wire Diagram deliverables listed below shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO/IEC standard or other commercial document format. Where no Government DID is available an alternate IEEE/ISO/IEC standard has been specified.

- 1. One-Wire Diagrams; DI-SESS-81002F.

The content of the One-Wire Diagrams, per common engineering usage, shall be a representation of the systems named in the phase II SOW, by means of single lines and graphics symbols showing the major components of the systems and their connectivity relationships

- 17. PRICE GROUP: NSP
- 18. ESTIMATED TOTAL PRICE: NSP

-
- G. PREPARED BY: Doug Worth
 - H: DATE: October 2013
 - I: APPROVED BY: Doug Worth
 - J: DATE: October 2013

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PAGE 2

DD FORM 1423, FEB 2001

CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

- A. CONTRACT LINE ITEM NO.: D018
- B. EXHIBIT: AJ
- C. CATEGORY:
TDP _____ TM _____ OTHER X _____
- D. SYSTEM/ITEM: Stryker Family of Vehicles
- E. CONTRACT/PR NO.: W56HZV-14-C-B019
- F. CONTRACTOR: GDLS

-
- 1. DATA ITEM NO: D018
 - 2. TITLE: Software Release Deliverables
 - 3. SUBTITLE: NA
 - 4. AUTHORITY: SEE BLOCK 16
 - 5. CONTRACT REFERENCE: C.7.1.8.3
 - 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 - 7. DD250 REQ: LT
 - 8. APP CODE: NA
 - 9. DIST. STATEMENT REQ: NA
 - 10. FREQUENCY: See block 16
 - 11. AS OF DATE: NA
 - 12. DATE OF FIRST SUBMISSION: 5 days after TRR
 - 13. DATE OF SUBS. SUBMISSION: See block 16
 - 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
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douglas.j.gersky.civ@mail.mil	1		

15. TOTAL COPIES: 3

16. REMARKS: The contractor shall deliver software release documents/products for the ECP Phase II effort.

Initial delivery of software release documentation/products shall be made no later than 5 days after the ECP Phase II Test Readiness Review (TRR). Subsequent deliveries shall be made in conjunction with contractor release of Stryker FoV system software to the Government.

The contractor shall deliver all software release documentation/products in the output format of the source code development tools employed by the contractor, Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof; as appropriate to the software release documentation/product.

The structure of all deliverable documentation listed below shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO standard or commercial document format. Where no Government DID is available an alternate IEEE/ISO standard has been specified.

- 1. Software/Firmware Source Code Files; <No DID Available>
 - a. Alternate: N/A
- 2. Software/Firmware Version Descriptions (SVD); DI-IPSC-81442
 - a. Alternate allowed per DI-IPSC-81442 section 4.g
- 3. Software/Firmware Test Procedures (STP); DI-NDTI-80603A
 - a. Alternate: IEEE Standard 829-2008, IEEE Standard for Software and System Test Documentation.
- 4. Software/Firmware Test Reports (STR); DI-IPSC-81440A
 - a. Alternate allowed per DI-IPSC-81440A section 4.g
 - b. Alternate: IEEE Standard 829-2008, IEEE Standard for Software and System Test Documentation.

- 5. Software/Firmware Quality Assurance Reports (SQAR); DI-QCIC-81795.
- a. Alternate: IEEE Standard 730, IEEE Standard for Quality Assurance Plans.
- b. Alternate: IEEE Standard 829-2008, IEEE Standard for Software and System Test Documentation.

Additional Instructions:

- A. Deliverable Item #1; software/firmware source code files: The contractor shall deliver software/firmware source code files for all Computer Software Configuration Items (CSCI) developed by the contractor or its first-tier subcontractors. Software/firmware source code files shall be delivered for CSCIs for which appropriate government rights have been determined (per CDRL D008, Software Transition Plan). The software/firmware source code files shall be delivered in the output format of the software development tool(s) used by the contractor.
- B. Deliverable Item #2; software/firmware version descriptions (SVD): The contractor SVD delivery shall include all addendum software/firmware release notes generated as part of a Stryker FoV system software/firmware release to the government.
- C. Deliverable Item #3; software/firmware test procedures (STP): DID DI-NDTI-80603A, is a generic test procedure format. The contractor may modify this format as appropriate for software test procedures. IEEE standard 829-2008 shall be used by the contractor as guidance for any STP format modification.
- D. Deliverable Item #5; software/firmware quality assurance reports (SQAR): DID DI-QCIC-81795, is a generic SQAR format. Per CDRL D007 - Software Quality Assurance Plan direction to IEEE Standard 730, IEEE Standard for Quality Assurance Plans (SQAP) for SQAP development, the contractor may modify the SQAR deliverable format to be in accordance with the delivered SQAP. Additional format guidance for the SQAR can be found in IEEE standard 829-2008.

- 17. PRICE GROUP: NSP
- 18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Gersky
H: DATE: October 2013
I: APPROVED BY: Doug Gersky
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

- A. CONTRACT LINE ITEM NO.: D019
- B. EXHIBIT: AK
- C. CATEGORY:
TDP ____ TM ____ OTHER X ____
- D. SYSTEM/ITEM: Stryker Family of Vehicles
- E. CONTRACT/PR NO.: W56HZV-14-C-B019
- F. CONTRACTOR: GDLS

-
- 1. DATA ITEM NO: D019
 - 2. TITLE: Vehicle Electronics, Software, and Network Architecture
 - 3. SUBTITLE: NA
 - 4. AUTHORITY: SEE BLOCK 16
 - 5. CONTRACT REFERENCE: C.7.1.8.1
 - 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 - 7. DD250 REQ: NA
 - 8. APP CODE: NA
 - 9. DIST. STATEMENT REQ: NA
 - 10. FREQUENCY: NA
 - 11. AS OF DATE: NA
 - 12. DATE OF FIRST SUBMISSION: See Block 16.
 - 13. DATE OF SUBS. SUBMISSION: NA
 - 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:
	FINAL
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richard.d.worth4.civ@mail.mil	1
gdllsdsrvshc065.ls.gdls.com	1
macam.s.dattathreya.civ@mail.mil	1

15. TOTAL COPIES: 3

16. REMARKS:
The contractor shall deliver the following set of vehicle electronics, software, and network architecture documentation for the phase II ECP effort no later than 15 days after the Critical Design Review.

The Contractor shall deliver all architecture documentation in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof. All Architecture diagrams shall be delivered in Microsoft Visio format in addition to other contractor selected formats.

The structure of all deliverable architecture documentation listed below shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO/IEC or other commercial standard document format. Where no Government DID is available an alternate IEEE/ISO/IEC standard has been specified.

- 1. Vehicle Electronics, Software, and Network Architecture Documentation; <No DID Available>
 - a. Alternate: IEEE/ISO Standard 42010, Systems and software engineering Architecture description
 - b. Alternate: ISO/IEC 19501:2005(E), Unified Modeling Language Specification
 - c. Alternate: ISO/IEC 19505-1:2012, Information technology Object Management Group Unified Modeling Language (OMG UML)
Part 1: Infrastructure
 - d. Alternate: ISO/IEC 19505-1:2012, Information technology Object Management Group Unified Modeling Language (OMG UML)
Part 2: Superstructure

Utilizing the IEEE/ISO standards cited above as guidance, the contractor shall deliver both functional and physical architectures for the Stryker ECP FoVs vehicle electronics, software, and network subsystems. The artifacts delivered documenting these architectures shall at a minimum include:

- A. An overview architectural description of each subsystem cited above.
- B. A listing of all components contained in the architectures of each subsystem cited above.

- C. A description of all architectural components function(s) of each subsystem cited above.
- D. A listing of all standards, protocols, and services employed in the architectures of each subsystem cited above.
- E. Architecture diagrams of each subsystem cited above.
 - a. Functional architecture diagrams shall be developed using the Unified Modeling Language where appropriate.
 - b. Physical architecture diagrams may utilize the Unified Modeling Language where appropriate.

17. PRICE GROUP: NSP

18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Gersky

H: DATE: October 2013

I: APPROVED BY: Doug Gersky

J: DATE: October 2013

PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D020
B. EXHIBIT: AL
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: D020
 2. TITLE: Meeting Minutes
 3. SUBTITLE: NA
 4. AUTHORITY: DI-ADMN-81505
 5. CONTRACT REFERENCE: C.7.1.13.1
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: NO
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: D
 10. FREQUENCY: 48 hours posted or delivered following scheduled meeting
 11. AS OF DATE: Start of Contract
 12. DATE OF FIRST SUBMISSION: See Block 16
 13. DATE OF SUBS. SUBMISSION: NA
 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
	FINAL	DRAFT	REG REPRO:
richard.d.worth4.civ@mail.mil	1		
gdllsdsrvshc065.ls.gdls.com	1		

15. TOTAL COPIES: 2

16. REMARKS: BLK 4: DI-ADMN-81505 is tailored as follows:
1. Content is deleted in its entirety and replaced with
The meeting minutes shall contain the following:
meeting agenda
open action item list with suspense date
project schedule
program status
presentation material, e.g. engineering quad charts, etc
funding status

Delete section 10.2, 10.3, 10.4

The minutes shall be electronically delivered to the Government via e-mail, CD or DVD to the individuals addressed in BLK 14.

The contractor shall deliver all minutes in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Worth
H: DATE: October 2013
I: APPROVED BY: Doug Worth
J: DATE: October 2013
PAGE 1 OF 1

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DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D021
B. EXHIBIT: AM
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: D021
 2. TITLE: Software Development Plan (SDP)
 3. SUBTITLE: NA
 4. AUTHORITY: DI-IPSC-81427
 5. CONTRACT REFERENCE: C.7.1.8.4
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: NO
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: D
 10. FREQUENCY: Twice
 11. AS OF DATE: NA
 12. DATE OF FIRST SUBMISSION: 45 days after contract award
 13. DATE OF SUBS. SUBMISSION: NA
 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
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gdllsdsrvshc065.ls.gdls.com	1		
douglas.j.gersky.civ@mail.mil	1		

15. TOTAL COPIES: 3

16. REMARKS:

The contractor shall deliver a Software Development Plan (SDP) for the ECP effort no later than 45 days after ECP Phase II contract award.

Following the contractors first submission, PMO SBCT will review the SDP; providing comments back to the contractor within 15 days. The contractor shall submit a response to PMO SBCT comments no later than 15 days after receipt.

The Contractor shall prepare the deliverable in Microsoft Office format(s), Adobe Acrobat PDF format, or a combination thereof.

The structure of all deliverable documentation listed below shall utilize a Government documentation Data Item Description (DID) format or, if allowable by the DID specified below, an equivalent IEEE/ISO standard or other commercial document format. Where no Government DID is available an alternate IEEE/ISO standard has been specified.

1. Software Development Plan (SDP); DI-IPSC-81427.
 - a. Alternate allowed per DI-IPSC-81427 section 10.1.1

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Gersky
H: DATE: October 2013

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MOD/AMD P00001
ATT/EXH ID Exhibit AM
PAGE 2

I: APPROVED BY: Doug Gersky
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D022
B. EXHIBIT: AN
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D022
2. TITLE: Stryker Variant Detailed Designs
3. SUBTITLE: NA
4. AUTHORITY: DI-SESS-81002F
5. CONTRACT REFERENCE: C.7.1.6
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: Once
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: 30 days before CDR
13. DATE OF SUBS. SUBMISSION: NA
14. DISTRIBUTION:

A. ADDRESSEE: B. COPIES:
FINAL DRAFT REG REPRO:
richard.d.worth4.civ@mail.mil 1

15. TOTAL COPIES: 1

16. REMARKS: Block 4: DI-SESS 81002F is tailored as follows:

Delete TDP Option Selection Worksheet. Delete Requirements blocks 3 and 4.

Contractor shall provide Type 2D production level drawings for the following ECP variants in accordance with the SEP (Attachment 0007).

DVH
ICVV
MCVV
CVV
FSVV
ESVV
MEVV
ATVV

Drawings shall be delivered in Adobe pdf or MS Visio format.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Doug Worth
H: DATE: October 2013
I: APPROVED BY: Doug Worth

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit AN
PAGE 2

J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: D023
B. EXHIBIT: AO
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: D023
2. TITLE: Transportability Analysis Report
3. SUBTITLE: NA
4. AUTHORITY: DI-PACK-80880D
5. CONTRACT REFERENCE: C.7.2.1.8
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: Once
11. AS OF DATE: See block 16
12. DATE OF FIRST SUBMISSION: See block 16
13. DATE OF SUBS. SUBMISSION: See block 16
14. DISTRIBUTION:

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Kevin.r.kasa.civ@mail.mil	1			
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Lynette.shaffer.civ@mail.mil	1	peggy.miedlar@us.af.mil		
over.civ@mail	1			Matthew.n.D

15. TOTAL COPIES: 6

16. REMARKS: The Contractor shall deliver a final, DVH variant specific, detailed transportability analysis report 30 days after USG Scheduled variant CDR with a complete full summary report, supplied no later than 30 days after the last variant CDR is completed.

The transportability analysis shall include road, rail, ship and air analysis. The analysis shall detail the transport configuration, axle weights, as well as any special preparation needed for transport. Air transport analysis shall include a strategy for up to 2 fully kitted, or 3 non-kitted, Strykers on a single C-17 airframe, and up to 4 fully kitted, or 4 non-kitted, Strykers on a single C-5 airframe. Completed Transportability Report submitted per Data Item Description (DID) DI-PACK-80880D, additional Air Transportability Report information will be supplied by populating the provided ATTLA data sheet.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Kevin Kasa
H: DATE: October 2013
I: APPROVED BY: Kevin Kasa
J: DATE: October 2013
PAGE 1 OF 1

PIIN/SIIN W56HZV-14-C-B019
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PAGE 2

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L001
B. EXHIBIT: AP
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L001
2. TITLE: Log Mgt Info (LMI) for LORA
3. SUBTITLE: NA
4. AUTHORITY: DI-SESS-81758 and DI-SESS-81759
5. CONTRACT REFERENCE: C.8.1
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: NTE 2 submissions
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: 6 months After CDR
13. DATE OF SUBS. SUBMISSION: TBD at Log Start of Work
14. DISTRIBUTION:

A.	ADDRESSEE:	B. COPIES:
		FINAL
		DRAFT REG REPRO:
	Marilyn.l.salazar.civ@mail.mil	1
	paul.g.webster.civ@mail.mil	1
	Alexander.j.mcarthur.civ@mail.mil	1

15. TOTAL COPIES:3

16. REMARKS: LMI Data shall be created IAW AR 700-28, Logistics Assessment Guidebook, and AR 750-1.

Contractor shall deliver a Level of Repair Analysis (LORA) report for each Stryker ECP variant 6 months after CDR with subsequent reports as requested at Logistics Start of Work meeting.

For DI-SESS-81759 only paragraph 3.2 applies to this CDRL.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H. DATE: October 2013
I. APPROVED BY: Paul Webster
J. DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L002
B. EXHIBIT: AQ
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L002
2. TITLE: Log Mgt Info (LMI) for RCM
3. SUBTITLE: NA
4. AUTHORITY: DI-ILSS-80111A
5. CONTRACT REFERENCE: C.8.2
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: NTE 2 submissions
11. AS OF DATE: BLK 16
12. DATE OF FIRST SUBMISSION: 6 months after CDR.
13. DATE OF SUBS. SUBMISSION: TBD at Log SOW
14. DISTRIBUTION:

A.	ADDRESSEE:	B. COPIES:
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	alexander.j.mcarthur.civ@mail.mil	1
	robert.w.kluge.civ@mail.mil	1
	john.r.kandrot.civ@mail.mil	1

15. TOTAL COPIES: 3

16. REMARKS: The contract shall deliver RCM data IAW AR 700-127 as an LSA 50 report 6 months after CDR, Subsequent LSA 50 deliveries will be addressed at Log Start of work meeting.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H. DATE: October 2013
I. APPROVED BY: Paul Webster
J. DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L003
B. EXHIBIT: AR
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L003
2. TITLE: Log Mgt Info (LMI) for MARC and BOIP, MAC
3. SUBTITLE: NA
4. AUTHORITY: DI-SESS-81758 and DI-SESS-81759
5. CONTRACT REFERENCE: C.8.3
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: NTE 2 submissions
11. AS OF DATE: As required
12. DATE OF FIRST SUBMISSION: 6 months after CDR.
13. DATE OF SUBS. SUBMISSION: TBD at Log SOW
14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
	FINAL	DRAFT	REG REPRO:
alexander.j.mcarthur.civ@mail.mil		1	
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john.r.kandrot.civ@mail.mil		1	
Daniel.cottone.civ@mail.mil		1	

15. TOTAL COPIES: 4

16. REMARKS: Contractor shall deliver the first Manpower Requirements Computation (MARC) and Basis of Issue Plan (BOIP) report 6 months after CDR with subsequent submissions as determined at Log SOW meeting.

The contractor shall provide LSA-001 and LSA-004 reports to support the development of maintenance manpower estimates for the Stryker ECP variants. The reports will be developed from the Logistics Support Analysis Record (LSAR) database developed for the Stryker ECP variants using MIL-STD-1388-2B, MIL-HDBK-502, GEIA-STD-007 worksheet #2, Appendix B of MIL-PRF-49509 & TB 750-93-1.

Contractor shall deliver a Maintenance Allocation Chart (MAC) (LSAR 004) applicable to all ECP Interactive Electronic Technical Manual (IETM) 6 months after CDR with subsequent MACs delivered as determined at Log SOW meeting.

The contractor shall deliver ECP Phase 2 data, in a format to be determined at the Log start of work meeting, at the end of the period of performance.

For DI-SESS-81759, only paragraph 3.5 applies.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster

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PAGE 2

H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L004
B. EXHIBIT: AS
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: L004
 2. TITLE: Log Mgt Info (LMI) for Provisioning
 3. SUBTITLE: NA
 4. AUTHORITY: DI-SESS-81758 and DI-SESS--81759
 5. CONTRACT REFERENCE: C.8.5, C.8.5.1, C.8.5.3, C.8.5.4
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: D
 10. FREQUENCY: Quarterly
 11. AS OF DATE: NA
 12. DATE OF FIRST SUBMISSION: 6 mos after CDR
 13. DATE OF SUBS. SUBMISSION: Quarterly
 14. DISTRIBUTION:

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		DRAFT REG REPRO:
	Kendall.j.whitehead.civ@mail.mil	1 1
	john.r.kandrot.civ@mail.mil	1 1
	andrea.kennedy.2.civ@mail.mil	1

15. TOTAL COPIES: 5

16. REMARKS: The contractor shall deliver production representative drawings for all P-coded items in pdf format 30 days prior to each provisioning conference. All drawings will be marked in accordance with (IAW) the requirements of DFARS 252.227-7013(e) and 252.227-7014(e), AR 700-18, AR 700-82, & GEIA-STD-0007

LSA-36 data will be delivered via electronic means in a format compatible with the US Army Logistics Modernization Program (LMP) within 30 days after each provisioning conference. LSA 036 will include M and N records as required. Rejects will be corrected and resubmitted in a revised LSA-36 report within 30 days of notice.

In cases where hard copy drawings are not available, computer models will be evaluated on a case by case basis. If they are not suitable for NSN assignment, the contractor shall provide hard copy or electronic format (PDF) drawings.

For DI-SESS81759, only paragraph 3.4 applies.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

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PAGE 2

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L005
B. EXHIBIT: AT
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L005
2. TITLE: Interactive Electronic Manuals (IETM)
3. SUBTITLE: NA
4. AUTHORITY: DI SESS 81758 & DI TMSS-81354
5. CONTRACT REFERENCE: C.8.6, C.8.6.2, C.8.6.4, C.8.6.6
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: TBD
11. AS OF DATE: As required
12. DATE OF FIRST SUBMISSION: TBD at Start of Work
13. DATE OF SUBS. SUBMISSION: TBD at Start of Work
14. DISTRIBUTION:

A.	ADDRESSEE:	B. COPIES:
		FINAL
		DRAFT REG REPRO:
marilyn.l.salazar.civ@mail.mil	2	6
jennifer.f.lunde.civ@mail.mil		
martin.a.vaisanen.civ@mail.mil		
nicholas.c.howell3.civ@mail.mil		

15. TOTAL COPIES: 8

16. REMARKS: The contractor shall participate in all Validation & Verification and incorporate 100% of all comments. Revised data will be resubmitted for review within 30 days after receipt of comments.

The contractor shall deliver IETMs in Electronic Maintenance System Next Generation (EMS NG) format, disk mailer, media labels on a CD-ROM or DVD shall be loaded onto individual CDs or DVDs (6 copies each) unless otherwise directed by the COR.

IETMS shall be developed and IAW AR25-30, DA PAM-25-40, MIL-HDBK-1222D, Style Guide, MIL-STD-40051-1B and MIL-STD-40051-2B & Validation & Verification Plan.

Preliminary Technical Manual (PTM) submission shall include 2 copies.

The contractor shall deliver Final Reproducible Copies (FRC) 6 months prior to the end of the contracts performance completion date. FRC submission shall include 6 copies.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster

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PAGE 2

J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

- A. CONTRACT LINE ITEM NO.: L006
- B. EXHIBIT: AU
- C. CATEGORY:
TDP _____ TM _____ OTHER X_____
- D. SYSTEM/ITEM: Stryker Family of Vehicles
- E. CONTRACT/PR NO.: W56HZV-14-C-B019
- F. CONTRACTOR: GDLS

-
- 1. DATA ITEM NO: L006
 - 2. TITLE: Paper Operators Technical Manuals and Source Files
 - 3. SUBTITLE: NA
 - 4. AUTHORITY: DI-SESS-81758 and DI-TMSS-81354
 - 5. CONTRACT REFERENCE: C.8.6.2, C.8.6.6, C.8.6.8
 - 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 - 7. DD250 REQ: LT
 - 8. APP CODE: NA
 - 9. DIST. STATEMENT REQ: D
 - 10. FREQUENCY: TBD
 - 11. AS OF DATE: As required
 - 12. DATE OF FIRST SUBMISSION: TBD at Start of Work
 - 13. DATE OF SUBS. SUBMISSION: TBD at Start of Work
 - 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:			
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jennifer.f.lunde.civ@mail.mil		2	6	
martin.a.vaisanen.civ@mail.mil				
nicholas.c.howell3.civ@mail.mil				

15. TOTAL COPIES: 16

16. REMARKS: The contractor shall participate in all Validation & Verification and incorporate 100% of all comments. Revised data will be resubmitted for review within 30 days after receipt of comments.

First submission will be determined at start of work meeting. The contractor shall deliver Operators paper manuals, running sheets and media labels and source files in a Portable Document File (PDF) and MS Word Format loaded onto individual CD-ROMs or DVDs (6 copies each) which shall be labeled to identify the content and date of submission unless otherwise directed by the COR..

TMs shall be developed and IAW AR 25-30, DA PAM-25-40, MIL-HDBK-1222D, MIL-STD-40051-1B and MIL-STD-40051-2B, Style Guide & Validation & Verification Plan.

Preliminary Technical Manual (PTM) submission shall include 2 copies.

The contractor shall deliver Final Reproducible Copies (FRC) 6 months prior to the end of the contracts performance completion date. FRC submission shall include 6 copies.

- 17. PRICE GROUP: NSP
- 18. ESTIMATED TOTAL PRICE: NSP

-
- G. PREPARED BY: Paul Webster
 - H. DATE: October 2013
 - I. APPROVED BY: Paul Webster
 - J. DATE: October 2013

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A. CONTRACT LINE ITEM NO.: L007
B. EXHIBIT: AV
C. CATEGORY:
TDP ___ TM ___X___ OTHER___
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L007
2. TITLE: Other Technical Publications and Source Material
3. SUBTITLE: NA
4. AUTHORITY: DI-TMSS-81354
5. CONTRACT REFERENCE: C.8.7, C.8.7.1, C.8.8
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: NTE 2 Submissions
11. AS OF DATE: As required
12. DATE OF FIRST SUBMISSION: TBD at Start of Work
13. DATE OF SUBS. SUBMISSION: TBD at Start of Work
14. DISTRIBUTION:

A.	ADDRESSEE:	B. COPIES:
		FINAL
		DRAFT REG REPRO:
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jennifer.f.lunde.civ@mail.mil		
martin.a.vaisanen.civ@mail.mil		
nicholas.c.howell3.civ@mail.mil		

15. TOTAL COPIES: 8

16. REMARKS: The contractor shall deliver other technical publications to include but not limited to Demilitarization Instructions, Battle Damage Assessment Repair (BDAR) Manual, and Schematics or Diagrams, Source files, explanatory MS Word File, running sheets, media labels in an Editable Portable Document File (PDF) and MS Word Format.

Demilitarization procedures, and Schematics or Diagrams, Source files, explanatory MS Word File, Battle Damage Assessment Repair (BDAR) Manual, running sheets, media labels shall be loaded onto individual CDs or DVDs (6 copies each) which shall be labeled to identify the content and date of submission unless otherwise directed by the COR

Schematics will be 11x17 inches or larger depending on complexity with folding permissible.

TMs shall be developed and IAW AR 25-30, DA PAM-25-40, MIL-HDBK-1222D, MIL-STD-40051-1B and MIL-STD-40051-2B Style Guide & Validation & Verification Plan.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013

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CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L008
B. EXHIBIT: AW
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L008
2. TITLE: Publications History File
3. SUBTITLE: NA
4. AUTHORITY: DI-TMSS-81354
5. CONTRACT REFERENCE: C.8.6.3
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: Once
11. AS OF DATE: As required
12. DATE OF FIRST SUBMISSION: TBD at Start of Work
13. DATE OF SUBS. SUBMISSION: NA
14. DISTRIBUTION:

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martin.a.vaisanen.civ@mail.mil		
nicholas.c.howell3.civ@mail.mil		

15. TOTAL COPIES: 2

16. REMARKS: The contractor shall provide a history file with each authorized delivery of Operator's Technical Manuals and the IETM. The Publications History file will document the changes made to the IETM by indicating the change driver (Government comment, 2028, ECP/ECO/CR, etc) and the Life Cycle Identification Number (LCID) or Task Title for the task(s) affected.

The Publication History file will be in contractor format.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L009
B. EXHIBIT: AX
C. CATEGORY:
TDP ___ TM ___X___ OTHER___
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L009
2. TITLE: Technical Manuals, Technical Bulletins and Source Material
3. SUBTITLE: NA
4. AUTHORITY: DI-TMSS-81354
5. CONTRACT REFERENCE: C.8.6.8
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: D
10. FREQUENCY: NTE 2 Submissions
11. AS OF DATE: As required
12. DATE OF FIRST SUBMISSION: TBD at Start of Work
13. DATE OF SUBS. SUBMISSION: TBD at Start of Work
14. DISTRIBUTION:

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jennifer.f.lunde.civ@mail.mil		2	6
nicholas.c.howell13.civ@mail.mil			
martin.a.vaisanen.civ@mail.mil			

15. TOTAL COPIES: 16

16. REMARKS:

The contractor shall deliver all Technical Manuals (TMs), Technical Bulletins (TBs), Source files, explanatory MS Word File, running sheets, media labels in an Editable Portable Document File (PDF) and MS Word Format IAW AR 25-30, & DA PAM 25-40.

Technical Manuals (TMs), Technical Bulletins (TBs), Source files, explanatory MS Word File, running sheets, media labels shall be loaded onto individual CDs or DVDs (6 copies each) which shall be labeled to identify the content and date of submission unless otherwise directed by the COR

TMs shall be developed and IAW AR 25-30, DA PAM-25-40, MIL-HDBK-1222D, MIL-STD-40051-1B and MIL-STD-40051-2B, Style Guide & Validation & Verification Plan.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
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J: DATE: October 2013
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CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L010
B. EXHIBIT: AY
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: L010
 2. TITLE: STTE, BII Drawings
 3. SUBTITLE: NA
 4. AUTHORITY: DI-TMSS-81354
 5. CONTRACT REFERENCE: C.8.9.1, C.8.9.2
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: D
 10. FREQUENCY: One Time
 11. AS OF DATE: NA
 12. DATE OF FIRST SUBMISSION: TBD at SOW
 13. DATE OF SUBS. SUBMISSION: NA
 14. DISTRIBUTION:

A.	ADDRESSEE:	B. COPIES:
		FINAL DRAFT REG REPRO:
	marilyn.l.salazar.civ@mail.mil	1
	jon.w.wiedemann.civ@mail.mil	1
	robert.w.kluge.civ@mail.mil	1

15. TOTAL COPIES: 3

16. REMARKS: The contractor shall update current STTE, and BII drawings for ECP affected variants.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L011
B. EXHIBIT: AZ
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: L011
 2. TITLE: Logistics Management Information (LMI) Data Products -Packaging
 3. SUBTITLE: Packaging
 4. AUTHORITY: DI-SESS-81758
 5. CONTRACT REFERENCE: C 8.10, C.8.10.1,
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: A
 10. FREQUENCY: As required
 11. AS OF DATE: As required
 12. DATE OF FIRST SUBMISSION: See block 16
 13. DATE OF SUBS. SUBMISSION: See block 16
 14. DISTRIBUTION:

A.	ADDRESSEE:	B. COPIES:
		FINAL
		DRAFT REG REPRO:
Michael.r.brownl9.civ@mail.mil		1
john.r.kandrot.civ@mail.mil		1
dawn.m.brinkmeier.civ@mail.mil		1

15. TOTAL COPIES: 3

16. REMARKS: Format and content are described in GEIA-STD-0007 & MIL-STD-2073-ID and clarified / tailored by two attachments:
1. Attachment A, Logistics Management Information Packaging Data Products
 2. Attachment B, Incoming Transaction Format

The following data element positions as defined in Attachment B will be left blank:
17, 27-28, 38, 114, 158, 209, 215-336
BLK 12 - First submittal due 30 days after contract award
BLK 13 - Subsequent submittals are due every 30 days.

Government to review submittals and either approve or disapprove data. Disapproved packaging data shall be revised by the Contractor within 5 days upon receipt and resubmit for approval.

For Engineering changes and logistics changes, submit within 60 days after approved change.

LMI Data Products for all Special Group Items and Equipment Preservation Data Sheets (EPDS) shall be submitted with the Special Packaging Instruction or EPDS.

Packaging:

Repro = electronic copy delivery to email:

AMSTA-LCL-MSP: dawn.m.brinkmeier.civ@mail.mil

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
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J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L012
B. EXHIBIT: BA
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: L012
 2. TITLE: Special Packaging Instruction (SPI)
 3. SUBTITLE: Packaging
 4. AUTHORITY: DI-PACK-80121C
 5. CONTRACT REFERENCE: C.8.10.2, C.8.10.3
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: A
 10. FREQUENCY: As required
 11. AS OF DATE: As required
 12. DATE OF FIRST SUBMISSION: See block 16
 13. DATE OF SUBS. SUBMISSION: NA
 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
	FINAL	DRAFT	REG REPRO:
Michael.r.brown19.civ@mail.mil	1		1
john.r.kandrot.civ@mail.mil	1		1
dawn.m.brinkmeier.civ@mail.mil	1		1

15. TOTAL COPIES: 6

16. REMARKS: IAW MIL-STD-2073-ID, ASTM-D-4169

A Packaging Validation Test Report shall be submitted for each SPI component as an attachment to the Special Packaging Instruction.

For Engineering changes and logistics changes, submit within 60 days after approved change.

BLK 12 - First submittal due 60 days after approved ECP changes.

BLK 14 - Submit electronically in a format that is readable and editable by the Government (currently MS Word Office) Repro copy = Electronic delivery CD ROM or email.

Packaging:
Repro = electronic copy delivery to email:
AMSTA-LCL-MSP: dawn.m.brinkmeier.civ@mail.mil

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

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PAGE 2

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L013
B. EXHIBIT: BB
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: L013
 2. TITLE: Container Design Retrieval System (CDRS) Search Request
 3. SUBTITLE: Packaging
 4. AUTHORITY: DI-PACK-80683B
 5. CONTRACT REFERENCE: C.8.11.2
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: A
 10. FREQUENCY: As required
 11. AS OF DATE: As required
 12. DATE OF FIRST SUBMISSION: See block 16
 13. DATE OF SUBS. SUBMISSION: NA
 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
	FINAL	DRAFT	REG REPRO:
Michael.r.brown19.civ@mail.mil		1	
john.r.kandrot.civ@mail.mil		1	
dawn.m.brinkmeier.civ@mail.mil		1	

15. TOTAL COPIES: 3

16. REMARKS: BLK 12 - Submit Search Request to CDRS for approved candidates.

The CDRS management office can be contacted through AAC/ WMOC (CDRS), Attn: CDRS, 314 West Choctawhatchee Avenue, Suite 104, Eglin AFB, FL 32542-5717.

Packaging:
Repro = electronic copy delivery to email: AMSTA-LCL-MSP: dawn.m.brinkmeier.civ@mail.mil

17. PRICE GROUP: NSP
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G. PREPARED BY: Paul Webster
H: DATE: October 2013
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PAGE 1 OF 1

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CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L014
B. EXHIBIT: BC
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: L014
 2. TITLE: Reusable Containers
 3. SUBTITLE: NA
 4. AUTHORITY: DI-SESS-81000E & DI-PACK-80457
 5. CONTRACT REFERENCE: C.8.11.3
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: NA
 9. DIST. STATEMENT REQ: NA
 10. FREQUENCY: As required
 11. AS OF DATE: As required
 12. DATE OF FIRST SUBMISSION: As required
 13. DATE OF SUBS. SUBMISSION: As required
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	john.r.kandrot.civ@mail.mil	1
	dawn.m.brinkmeier.civ@mail.mil	1

15. TOTAL COPIES: 3

16. REMARKS: The contractor shall notify TACOM Packaging of any potential LLRC candidates as a result of the ECPs.

If candidate is considered for LLRC development, the contractor shall submit a proposal within 60 days of Government approval in accordance with LLRC Proposal Attachment. The CDRS search results should be part of the proposal.

The Government will evaluate each LLRC proposal within 30 days upon receipt. Once the proposal is approved the contractor shall produce a prototype, schedule and perform validation testing, and provide a validation test report. Contractor shall notify Government 30 days in advance of validation testing to allow for Government representative attendance. Twelve months after receipt of formal Government approval contractor must provide TDP of validated container.

Usage of commercially available reusable containers is restricted to packaging of LRU. The contractor shall submit potential candidate list and proposal for each applicable LRU within 30 days after each Logistic Review.

The contractor shall be notified in writing by the Government of approval or rejection within 30 days upon receipt of proposal.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

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A. CONTRACT LINE ITEM NO.: L015
B. EXHIBIT: BD
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L015
2. TITLE: Training Support Packages (TSP)
3. SUBTITLE: Training Materials & Products
4. AUTHORITY: DI-ILSS-80872/T
5. CONTRACT REFERENCE: C.8.12
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: A
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: See Blk 16
11. AS OF DATE: DAC
12. DATE OF FIRST SUBMISSION: See Blk 16
13. DATE OF SUBS. SUBMISSION: See Blk 16
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Jay.a.kinsey.civ@mail.mil
Jamie.l.gardner-kaufman.civ@mail.mil
Patrick.w.henn.civ@mail.mil

15. TOTAL COPIES: 1

16. REMARKS: BLK 10-13: The contractor shall deliver a Training Support Package (TSP) for operator and maintenance training to the government for review 90 days after the training task analysis is completed. The contractor shall deliver to the Government a cumulative TSP inclusive of all changes made 60 days after completion of I&KPT. The TSP shall be delivered in CD ROM.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L016
B. EXHIBIT: BE
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L016
2. TITLE: Instructor & Key Personnel Training (I&KPT)
3. SUBTITLE: NA
4. AUTHORITY: .): DI-ADMN-81505
5. CONTRACT REFERENCE: C.8.12.1
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: A
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: See Blk 16
11. AS OF DATE: DAC
12. DATE OF FIRST SUBMISSION: See Blk 16
13. DATE OF SUBS. SUBMISSION: See Blk 16
14. DISTRIBUTION:

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Patrick.w.henn.civ@mail.mil	1

15. TOTAL COPIES: 5

16. REMARKS: BLK 10-13 The contractor shall deliver to the government: class rosters, student evaluations and After Action Report No Later Than (NLT) 10 days after completion of I&KPT.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H. DATE: October 2013
I. APPROVED BY: Paul Webster
J. DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L017
B. EXHIBIT: BF
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L017
2. TITLE: Training Task Analysis
3. SUBTITLE: NA
4. AUTHORITY: DI-SESS-81758 and DI-SESS-81759
5. CONTRACT REFERENCE: C.8.12.5
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE:
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: See Blk 16
11. AS OF DATE: See Blk 16
12. DATE OF FIRST SUBMISSION: See Blk 16
13. DATE OF SUBS. SUBMISSION: See Blk 16
14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:
	FINAL
	DRAFT REG REPRO:
gdllsdsrvshc065.ls.gdls.com	1
Jerome.w.snowden2.civ@mail.mil	1
Jay.a.kinsey.civ@mail.mil	1
Jamie.l.gardner-kaufman.civ@mail.mil	1
Patrick.w.henn.civ@mail.mil	1

15. TOTAL COPIES: 5

16. REMARKS: BLK 10-13 Contractor shall deliver the Training Task Analysis report 60 days prior to I&KPT. The contractor shall deliver changes to the Task Analysis identified during I&KPT NLT 30 days after the completion of I&KPT.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H. DATE: October 2013
I. APPROVED BY: Paul Webster
J. DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L018
B. EXHIBIT: BG
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

-
1. DATA ITEM NO: L018
 2. TITLE: Equipment Preservation Data Sheets (EPDS)
 3. SUBTITLE: NA
 4. AUTHORITY: DI-PACK-81581
 5. CONTRACT REFERENCE: C.8.10.4
 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 7. DD250 REQ: LT
 8. APP CODE: A
 9. DIST. STATEMENT REQ: NA
 10. FREQUENCY: As required
 11. AS OF DATE: As required
 12. DATE OF FIRST SUBMISSION: Draft 30 days after first vehicle DD250 acceptance
 13. DATE OF SUBS. SUBMISSION: Final 70 days after first vehicle DD250 acceptance
 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
	FINAL	DRAFT	REG REPRO:
marilyn.l.salazar.civ@mail.mil	1		1
michael.r.brown19.civ@mail.mil	1		1
john.r.kandrot.civ@mail.mil	1		1
dawn.m.brinkmeier.civ@mail.mil	1		1

15. TOTAL COPIES: 8

16. REMARKS: The contractor shall develop an EPDS for each Stryker variant IAW MIL-STD-3003 within 30 days after first vehicle DD250 acceptance and deliver initial submittal electronically to the Government. The contractor and Government shall perform limited validation exercise procedures at contractor's facility 30 days after receipt of initial EPDS submittal. The contractor to submit final electronic draft EPDS to Government 10 days after completion of validation exercise procedures.

The Government will review and either approve or disapprove within 10 days after receiving contractor's electronic draft EPDS. The contractor shall include Government approved EPDS into Organizational Manuals within 10 days upon receipt and provide Government written notification.

Any approved design or logistical changes directly affecting shipment configuration, weight, and transportability must be incorporated by the contractor into Government approved EPDS. Copy of revised EPDS must be provided to Government in compatible electronic format within 10 days after EPDS has been revised by contractor. The Government shall notify contractor of approval within 5 days of receiving revised EPDS. The contractor to insert Government approved revised EPDS into Organizational Manuals within 10 days upon receipt and provide Government written notification.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit BG
PAGE 2

DD FORM 1423, FEB 2001
 CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

- A. CONTRACT LINE ITEM NO.: L019
- B. EXHIBIT: BH
- C. CATEGORY:
 TDP ____ TM ____ OTHER X
- D. SYSTEM/ITEM: Stryker Family of Vehicles
- E. CONTRACT/PR NO.: W56HZV-14-C-B019
- F. CONTRACTOR: GDLS

-
- 1. DATA ITEM NO: L019
 - 2. TITLE: Meeting Minutes
 - 3. SUBTITLE: NA
 - 4. AUTHORITY: DI-ADMN-81505
 - 5. CONTRACT REFERENCE: C.8.16
 - 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 - 7. DD250 REQ: NA
 - 8. APP CODE: NA
 - 9. DIST. STATEMENT REQ: D
 - 10. FREQUENCY: Quarterly
 - 11. AS OF DATE: Start of Contract
 - 12. DATE OF FIRST SUBMISSION: TBD at Start of Work
 - 13. DATE OF SUBS. SUBMISSION: 3 working days after each meeting
 - 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:			
	FINAL	DRAFT	REG	REPRO:
Ralph.j.pfaff.civ@mail.mil		1		
Alexander.j.mcarthur.civ@mail.mil		1		
Matthew.n.dover.civ@mail.mil			1	
Paul.g.webster.civ@mail.mil		1		
Marilyn.l.salazar.civ@mail.mil	1		Patrick.w.henn.civ@mail.mil	1

- 15. TOTAL COPIES: 6
- 16. REMARKS: BLK 4: DI-ADMN-81505 is tailored as follows:
 - 1. Content is deleted in its entirety and replaced with
 The meeting minutes shall contain the following:
 meeting agenda
 open action item list with suspense date
 project schedule
 program status
 presentation material, e.g. engineering quad charts, etc
 funding status
 - Delete 10.2.1 thru 10.2.1.3 and sections 10.3,10.4
- The minutes shall be electronically delivered to the Government via e-mail, CD or DVD to the individuals addressed in BLK 14.
- The contractor shall deliver all minutes in contractor format.

- 17. PRICE GROUP: NSP
 - 18. ESTIMATED TOTAL PRICE: NSP
-

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit BH
PAGE 2

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: L020
B. EXHIBIT: BI
C. CATEGORY:
TDP ____ TM ____ OTHER_X_
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: L020
2. TITLE: Government Furnished Materiel List
3. SUBTITLE: NA
4. AUTHORITY: DI-MGMT-80408B
5. CONTRACT REFERENCE: C.7.2.1.5.3, C.7.2.1.6.1
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: NA
8. APP CODE: NA
9. DIST. STATEMENT REQ: NA
10. FREQUENCY: Once
11. AS OF DATE: NA
12. DATE OF FIRST SUBMISSION: See block 16
13. DATE OF SUBS. SUBMISSION: NA
14. DISTRIBUTION:

A.	ADDRESSEE:	B. COPIES:
		FINAL
		DRAFT REG REPRO:
	richard.d.worth4.civ@mail.mil	1
	Matthew.n.dover.civ@mail.mil	1

15. TOTAL COPIES: 2

16. REMARKS: Block 4: DI-MISC-80408B is tailored as follows:
Delete Requirements sections 1 and 2.

Twelve months before materiel is required from PMO SBCT, the Contractor shall deliver a Government Furnished Materiel List.
Six months prior to the first vehicle tear down, the contractor shall provide the Government with a list of non ECP required material.

For any materiel required, the list shall include:

1. quantities
2. requirement dates
3. requirement locations
4. nomenclature
5. part number

The report shall be in Microsoft Excel.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Paul Webster
H: DATE: October 2013
I: APPROVED BY: Paul Webster
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

- A. CONTRACT LINE ITEM NO.: T001
- B. EXHIBIT: BJ
- C. CATEGORY:
TDP ____ TM ____ OTHER X ____
- D. SYSTEM/ITEM: Stryker Family of Vehicles
- E. CONTRACT/PR NO.: W56HZV-14-C-B019
- F. CONTRACTOR: GDLS

-
- 1. DATA ITEM NO: T001
 - 2. TITLE: System Support Package List
 - 3. SUBTITLE: NA
 - 4. AUTHORITY: DI-ILSS-80134A/T
 - 5. CONTRACT REFERENCE: C.9.3, C.9.2.1
 - 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 - 7. DD250 REQ: LT
 - 8. APP CODE: NA
 - 9. DIST. STATEMENT REQ: B
 - 10. FREQUENCY: Required for each test
 - 11. AS OF DATE: See Block 16
 - 12. DATE OF FIRST SUBMISSION: See Block 16
 - 13. DATE OF SUBS. SUBMISSION: NA
 - 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
	FINAL	DRAFT	REG REPRO:
Bernard.J.Larkin.civ@mail.mil	1		
Deborah.A.Buyse.civ@mail	1		
Christopher.Hewett5.civ@mail	1		

15. TOTAL COPIES: 3

16. REMARKS: BLK 4: DID DI-ILSS-80134A is tailored as follows:

10.1 General, add the following at end of paragraph:

In addition to the spare parts list, the SSPL will also contain Peculiar common and special tools, Test, Measurement and Diagnostic Equipment (TMDE), Training materials for test site personnel, Technical manuals, Expendable manuals and Parts storage containers or trailers

Block 11, 12: For each test required, 270 days prior to delivery of vehicles to Government test sites. The SSPL shall define the required support elements.

- 17. PRICE GROUP: NSP
- 18. ESTIMATED TOTAL PRICE: NSP

- G. PREPARED BY: Bernie Larkin
- H: DATE: October 2013
- I: APPROVED BY: Bernie Larkin
- J: DATE: October 2013

PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: T002
B. EXHIBIT: BK
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: T002
2. TITLE: Configuration of Test Vehicles
3. SUBTITLE: NA
4. AUTHORITY: DI-MGMT-80368A/T
5. CONTRACT REFERENCE: C.9.8
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: B
10. FREQUENCY: Quarterly
11. AS OF DATE: See Block 16
12. DATE OF FIRST SUBMISSION: See Block 16
13. DATE OF SUBS. SUBMISSION: Quarterly
14. DISTRIBUTION:

A.	ADDRESSEE:	B. COPIES:
		FINAL
		DRAFT REG REPRO:
	Bernard.J.Larkin.civ@mail.mil	1
	Deborah.A.Buysse.civ@mail	1
	Christopher.Hewett5.civ@mail	1

15. TOTAL COPIES: 3

16. REMARKS: BLK 4: DID, DI-MGMT-80638A/T is tailored as follows:

Section 2 Format: deleted contractor format and replace with MS PowerPoint.

Section 3.2 Body of report shall be deleted in its entirety and replaced with the following:

3.2 Body of Report. The report shall detail the configuration of each test vehicle, organized by test vehicle and shall identify the location of each test vehicle.

Section 3.2.1 shall be deleted in its entirety and replaced with the following:

3.2.1. The status of the following shall be provided for in this report:

- a. Identify software and hardware versions of the RWS, C4ISR (FBCB2) and Drive Train configuration.
- b. Identify what version of the Mission Equipment Package (MEP) is on each test vehicle.
- c. Identify Engineering Change Orders that have been released to the TDP but not yet applied to each test vehicle.

Delete 3.2.2, 3.2.3, and 3.2.4.

BLKs 11 & 12: First report due three months after effective date of contract.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Bernie Larkin
H: DATE: October 2013
I: APPROVED BY: Bernie Larkin
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: T003
B. EXHIBIT: BL
C. CATEGORY:
TDP _____ TM _____ OTHER X _____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: T003
2. TITLE: System Support Package Data Base
3. SUBTITLE: NA
4. AUTHORITY: DI ILSS 80134A T
5. CONTRACT REFERENCE: C.9.3.2
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: B
10. FREQUENCY: Montly
11. AS OF DATE: See Block 16
12. DATE OF FIRST SUBMISSION: See Block 16
13. DATE OF SUBS. SUBMISSION: See Block 16
14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
	FINAL	DRAFT	REG REPRO:
Bernard.J.Larkin.civ@mail.mil	1		
Deborah.A.Buysse.civ@mail	1		
Christopher.Hewett5.civ@mail	1		
Nicholas.a.sadowski4.civ@mail.mil	1		

15. TOTAL COPIES: 4

16. REMARKS: The System Support Package (SSP) parts data shall be delivered monthly on the 15th of each month with the cut-off date for data therein being the end of the previous month. The report shall capture all SSP purchases made under this contract both past and on-going purchases. The following purchases are applicable: spares and repair parts, kits, special tools and test equipment, software, and site support equipment. The report shall contain identification of each item in the SSP by nomenclature; part number; Serial Number (if applicable); Unit cost; NSN; Vehicle Application (Example: DVH, Flat Bottom, Common, etc); quantity on-hand, location (test site); quantity ordered during the reporting period and estimated delivery date of undelivered material.

BLK 4: DID DI-ILSS-80134A is tailored as follows:

10.1 General, add the following at end of paragraph:

In addition to the spare parts list, the SSPL will also contain Peculiar common and special tools, Test, Measurement and Diagnostic Equipment (TMDE), Training materials for test site personnel, Technical manuals, Expendable manuals and Parts storage containers or trailers.

10.3 Content remove the following sections;

- k. Mean-Time-Between-Failure of each item
- m. Explanatory narrative which describes the recommended quantity to take into account multiple end items at a single location.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Bernie Larkin
H: DATE: October 2013
I: APPROVED BY: Bernie Larkin

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit BL
PAGE 2

J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: T004
B. EXHIBIT: BM
C. CATEGORY:
TDP ____ TM ____ OTHER X ____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: T004
2. TITLE: Failure Analysis & Corrective
Action Report (FACAR)
3. SUBTITLE: NA
4. AUTHORITY: DI-SESS-81315B
5. CONTRACT REFERENCE: C.9.6
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: B
10. FREQUENCY: See Block 16
11. AS OF DATE: See Block 16
12. DATE OF FIRST SUBMISSION: See Block 16
13. DATE OF SUBS. SUBMISSION: See Block 16
14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:
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Deborah.A.Buysse.civ@mail	1
Christopher.Hewett5.civ@mail	1

15. TOTAL COPIES: 3

16. REMARKS: BLKS 10, 11, 12,13 & 14:

Interim and Final FACARS responses shall be sent to the Versatile Information Systems Integrated Online (VISION) Digital Library System

Interim FACAR Responses: Interim FACARS shall be provided by the Contractor within the following specified time frames:

- a.Critical Defect 48 hours after Government notification.
- b.Major Defect 20 days after government notification.
- c.Minor Defect Interim response optional.
- d.Informational No interim response required.

The interim response shall provide the status of the Contractors investigation, and proposed date for submission of the final response. The interim status shall be updated every 30 days subsequent to the initial submission of the interim response.

Final Responses: Final responses are required for all TIRs (Critical, Major, and Minor), within forty five (45) calendar days after receipt unless modified as stated above. The Contractor shall provide responses to all informational TIRs which result from a non-compliance with the specification or a contractual requirement. The Contractor shall indicate the corrective action status, either Final or Interim on each FACAR and determine if it is closed or open. The Government will provide the closure criteria for those FACARS.

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Bernie Larkin
H: DATE: October 2013

PIIN/SIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit BM
PAGE 2

I: APPROVED BY: Bernie Larkin
J: DATE: October 2013
PAGE 1 OF 1

DD FORM 1423, FEB 2001
CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.: T005
B. EXHIBIT: BN
C. CATEGORY:
TDP ____ TM ____ OTHER X____
D. SYSTEM/ITEM: Stryker Family of Vehicles
E. CONTRACT/PR NO.: W56HZV-14-C-B019
F. CONTRACTOR: GDLS

1. DATA ITEM NO: T005
2. TITLE: Monthly Performance Report
3. SUBTITLE: NA
4. AUTHORITY: DI-MGMT-80368A/T
5. CONTRACT REFERENCE: C.9.7
6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
7. DD250 REQ: LT
8. APP CODE: NA
9. DIST. STATEMENT REQ: B
10. FREQUENCY: Monthly
11. AS OF DATE: Effective date of contract
12. DATE OF FIRST SUBMISSION: 45 days ARO
13. DATE OF SUBS. SUBMISSION: Monthly
14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:
	FINAL
	DRAFT REG REPRO:
Bernard.J.Larkin.civ@mail.mil	1
Deborah.A.Buyse.civ@mail	1
Christopher.Hewett5.civ@mail	1
Nicholas.a.sadowski4.civ@mail.mil	1

15. TOTAL COPIES: 4

16. REMARKS: BLK 4: DID, DI-MGMT-80638A/T is tailored as follows:

Section 2 Format: deleted contractor format and replace with contractors electronic format.

Section 3.2 Body of report shall be deleted in its entirety and replaced with the following:

3.2 Body of Report. The Status Report shall contain the following items,

- a. Comparison of actual cost versus baseline in total
- b. Narrative of activities supported
- c. Estimate of cost to complete
- d. Comparison of actual time spent supporting test activities to original baseline estimate in total
- e. Revised support requirement time line

17. PRICE GROUP: NSP
18. ESTIMATED TOTAL PRICE: NSP

G. PREPARED BY: Bernie Larkin
H: DATE: October 2013
I: APPROVED BY: Bernie Larkin
J: DATE: October 2013

PIIN/SIIN W56HZV-14-C-B019
MOD/AMD P00001
ATT/EXH ID Exhibit BN
PAGE 2

DD FORM 1423, FEB 2001

CONTRACT DATA REQUIREMENT LIST, PREVIOUS EDITION MAY BE USED Form Approval OMB No. 0704-0188

- A. CONTRACT LINE ITEM NO.: E001
- B. EXHIBIT: B0
- C. CATEGORY:
TDP ____ TM ____ OTHER X ____
- D. SYSTEM/ITEM: Stryker Family of Vehicles
- E. CONTRACT/PR NO.: W56HZV-14-C-B019
- F. CONTRACTOR: GDLS

-
- 1. DATA ITEM NO: E001
 - 2. TITLE: Final Inspection Record
 - 3. SUBTITLE: NA
 - 4. AUTHORITY: DI-QCIC-81068
 - 5. CONTRACT REFERENCE: E.1.1
 - 6. REQUIRING OFFICE: SFAE-GCS-SBCT-B
 - 7. DD250 REQ: LT
 - 8. APP CODE: NA
 - 9. DIST. STATEMENT REQ: NA
 - 10. FREQUENCY: As Required by blocks 12 and 16
 - 11. AS OF DATE: NA
 - 12. DATE OF FIRST SUBMISSION: 30 days prior to initial prototype production for each variant
 - 13. DATE OF SUBS. SUBMISSION: NA
 - 14. DISTRIBUTION:

A. ADDRESSEE:	B. COPIES:		
	FINAL	DRAFT	REG REPRO:
Kelvin.Z.Sandoval.civ@mail.mil	1	1	
Thomas.G.Sickles.civ@mail.mil	1	1	

15. TOTAL COPIES: 4

16. REMARKS: The Final Inspection Record is developed, maintained, and implemented IAW requirements in Section E of the contract titled Final Inspection Records. Transmittal of the FIR document, and government approval, can be by electronic means. Data item DI-QCIC-81068 may be used for reference.

- 17. PRICE GROUP: NSP
- 18. ESTIMATED TOTAL PRICE: NSP

- G. PREPARED BY: Tom Sickles
- H: DATE: October 2013
- I: APPROVED BY: Tom Sickles
- J: DATE: October 2013

PAGE 1 OF 1