

**PERFORMANCE WORK STATEMENT  
for  
Inspect Repair Only As Necessary (IROAN)  
of  
Mine Resistant Ambush Protected (MRAP)  
Cougar CAT II A1 ISS**

**TAMCN D00277K**

**NSN 2355-01-552-5199/11291D  
NSN 2355-01-579-8931/11291I**

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**LOGCOM Representative**

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**PM/PdM/Representative**

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**PERFORMANCE WORK STATEMENT**  
for  
**Inspect Repair Only As Necessary**  
of  
MRAP Cougar CAT II A1 ISS

## **1.0 SCOPE**

This Performance Work Statement (PWS) establishes, sets forth tasks, and identifies the work efforts that shall be performed by the Contractor (for purposes of this PWS, Contractor is defined as the commercial repair facility or government entity performing the Depot Reset/Rebuild effort of the Category (CAT) II Mine Resistant Ambush Protected (MRAP) Cougar Vehicles, hereafter referred to as the "Cougar". This document contains minimum requirements to install and/or verify the installation of referenced Capability Insertions (CIs), Modification Instructions (MIs), Technical Instructions (TIs), Maintenance Advisory Notices (MANs), Safety Advisory Notices (SANs) and Engineer Change Proposals (ECPs) to bring the Cougar to the approved baseline configuration as identified by the Cougar CAT II A1 ISS Indentured Bill of Material (IBOM) while simultaneously restoring the Cougar to Condition Code "A". For the definition of Condition Code "A", please refer Appendix A. Vehicle configuration information for the CAT II Cougars can be found in Appendix E.

### **1.1 Background.**

The objective of this program shall be to utilize the best maintenance technique which determines the minimum repairs necessary to restore equipment components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement.

- a. Verify the existing technical documentation for the Cougar to gain organic capability through, Depot Maintenance Work Requirements (DMWR), National Maintenance Work Requirements (NMWR), and work processes. This should include tools, test fixtures, technical manuals, and personnel to perform tasks associated with these items.
- b. The referenced maintenance and parts manuals shall be used to conduct this IROAN. The IBOM shall reside in the Marine Corps Joint Configuration Management Information System (JCMIS) and can be obtained by contacting the Marine Corps Logistics Command (LOGCOM), Albany, GA, Attn: MRAP Configuration Management (Code P706).
- c. Service Provider shall receive designated Cougar Category II vehicles (identified in Table 1) for this program. The Cougars will have CIs installed in accordance with existing approved installation documentation to ensure they all are brought to the final approved CAT I A1 ISS configuration. Progress shall be tracked and reported through the Production Status Reports. Production Status Report format can be found in Appendix B. CDRL A001.

**Table 1.**

VEHICLE	TAMCN	ID	NSN
CAT II A1	D00277K	11291D	2355-01-552-5199
CAT II A1 ISS	D00277K	11291I	2355-01-579-8931

d. Production Status Report Provide on a weekly basis. This information shall indicate the progress of work, the status of the program and of the assigned tasks. It shall also report costs at the program and the vehicle level, and inform of existing or potential problem areas. CDRL A001.

e. In-Process Review (IPR), whether by teleconference or site visit, shall be conducted monthly initially to review the program status. Follow-on IPRs will be based on any problems or concerns that are identified during production. The review shall be coordinated by LOGCOM and will include PEO LS PMM-207 and LOGCOM representatives. CDRL A002 and A003.

**2.0 APPLICABLE DOCUMENTS**

The following documents form a part of this PWS to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense, Index of Specifications and Standards (DODISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this PWS, the contents of this PWS shall be the superseding requirement.

**2.1 Military Specifications**

MIL-DTL-64159	Coating, Water Dispersible Aliphatic Polyurethane Chemical Agent Resistant
MIL-PRF-46108	Armor: Transparent
MIL-PRF-22750	Epoxy Polyamide

**2.2 Military Standards**

MIL-STD-129	Military Marking for Shipment and Storage
MIL-STD-130	Identification Marking of U.S. Military Property
MIL-STD-196	Joint Electronics Type Designation System
MIL-STD-461	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment
MIL-STD-464	Electromagnetic Environmental Effects Requirements for Systems
MIL-STD-810	Environmental Engineering Considerations and Laboratory Tests
MIL-STD-882	Standard for System Safety
MIL-STD-1472	Human Engineering
MIL-STD-2073-1	Standard Practice for Military

MIL-STD-3003

DOD Standard Practice; Vehicles, Wheeled:  
Preparation for Shipping and Storage of**2.3 Other Government Documents and Publications**

DFARS 211.274-1	Defense Federal Acquisition Regulation Supplement Item Identification
DFARS 252.211-7003	Defense Federal Acquisition Regulation
DFARS 252.211-7007	Item Unique Identification of Government Property
FAR PART 45	Government Property
29 CFR 1910.1200	Toxic and Hazardous Substances Item Unique Identification (IUID) System Software User's Manual (SUM) v4.3, October 20, 2011 (OSD IUID Registry User's Manual)

In addition, for commercial contracts:

DFARS 252.245-7001	Reports of Government Property
DFARS 252.245-7002	Reporting Loss of Government Property
DFARS 252.246-7006	Warranty Tracking of Serialized Items
DLM 4000.25-1	Military Standard Requisitioning and Issue Procedures (MILSTRIP)
DoDI 5000.02	Operation of the Defense Acquisition System
FED-STD 595	Paint Color Code
TM 3080-50	Corrosion Control Procedures for Depot Maintenance Activities
TM 4700-15/1	Ground Equipment Record Procedures
TM 4750-OD/1	Painting, Coating, Underbody, and Registration
	Marking for Marine Corps Combat and Tactical Equipment
TM 4795-OR/1	Organizational Corrosion Prevention and Control
	Procedures for USMC Ground Combat Equipment
TB 9-2355-328-40	Inspection and Corrective Repair Action Procedure for Mine Resistant Vehicles.
SPAWAR C4ISR	USMC Cougar Reset C4ISR Equipment De-Integration/Stowage/Vehicle Modifications
SPAWAR C4ISR	USMC Cougar Retained/Discarded Metalwork Document for Reset

Refer to the following appendices for Cougar Specific data:

- Engineering Change Proposals – Appendix G
- Technical Bulletins – Appendix H
- Maintenance Advisory Notices/Safety Advisory Notices – Appendix I
- Modification/Technical and Supply Instructions – Appendix J

**2.4 Technical Manuals**

TM 11202D-OR	Cougar Operator's Manual
TM 11202D-OI	Cougar Field Level Maintenance Manual(s) 1-4
TM 11202D-OD	Cougar Repair Parts and Special Tools List (RPSTL) Manual
TM 11202D-OD/2	Technical Manual Supplement for the MRAP Cougar Family of Vehicles
TM 11202K-OI/1	Technical Manual Maintenance Supplement ISS Brake Upgrade for Cougar MRAP
TM 11202K-OR/1	Repair Parts and Special Tools List (RPSTL) For Cougar MRAP Gunner's Protection Package
TI 11291D-OD/1	Installation and Troubleshooting Procedures of Integrated Government Furnished Equipment for Mine Resistant Protected Vehicle, Cougar, Category II

**2.5 Military Handbooks (For Guidance)**

MIL-HDBK-61	Configuration Management Guidance
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**2.6 Industry Standards**

ANSI Z535.4	Product Safety Signs and Labels
ANSI/ISO/ASQ Q9001-20__	Quality Management Systems
SSPC-SP-10/NACE No. 2	Joint Surface Preparation Standard near White Blast Cleaning
ASME Y14.24	Types and Applications of Engineering Drawings
ASTM D3951	Standard Practices for Commercial Packaging

**2.7 Industry Standards (For Guidance)**

ANSI/EIA-649	National Consensus Standard for Configuration Management
SAE JA1011	SAE Standard for Reliability-Centered Maintenance
SAE JA1012	A Guide to Reliability-Centered Maintenance

Copies of Military Specifications and Standards are available from the DoD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, commercial telephone number (215) 697-6396, DSN 442-6396, or on the Internet at [ASSIST- QuickSearch](#).

Copies of other government documents and publications required by the Contractor in connection with specific PWS requirements shall be obtained from the Commanding General (P821A), Marine Corps Logistics Command, 814 Radford Blvd., STE 20250, Albany, Georgia 31704-0250, commercial telephone number (229) 639-5412/6258 or DSN 567-5412/6258

Copies of engineering drawings, if applicable, shall be obtained from the Marine Corps Engineering Data Repository. An application for access to the Marine Corps JEDMICS is located

on the following website: <https://jedmicsweb.logcom.usmc.mil>. Click on New User Access Request link and follow directions. Access to Indentured Bills of Material (IBOMs), and other Government MRAP engineering documentation for read only, may be obtained from the Marine Corps Joint Configuration Management Information System (JCMIS). Authorization to access JCMIS may be obtained from Marine Corps Logistics Command, Albany, GA, Attn: MRAP Configuration Management Office, Code P706, at (229) 639-6655.

### **3.0 REQUIREMENTS**

#### **3.1 General Tasks.**

In fulfilling the specified requirements, the Contractor shall:

a. Provide all materials, labor, equipment, facilities and missing/repair parts, necessary to inspect, diagnose, restore, test, and complete each Cougar vehicle. Upon completion of each vehicle, the subject item shall be Condition Code "A" and fully mission-capable. All Cougar CAT II A1 vehicles processed under this PWS should be in a common configuration identified in the attached IBOM, Technical Bulletins, MANs/SANs, MIs/TIs, and Cougar Technical Manuals listed in the appendices and applicable documents section. Any MIs, TIs, SANs and approved ECPs not previously applied to the CAT II shall be applied during this IROAN. Pre-induction inventory of all modifications shall be conducted and documented by the contractor.

Note: For clarification COUGARECP-10022, refer to USMC Cougar RESET C4ISR Equipment De-Integration/Stowage/Vehicle Modifications and USMC Cougar Retained/Discarded Metalwork Document as referenced in this PWS.

b. Conduct in-process and final on-site inspection and testing for witness by a representative from PEO LS PMM-207 or authorized representative from Defense Contracts Management Agency (DCMA).

c. Contractor shall institute appropriate management actions relative to subcontractor performance. Requirements that are contractually specified shall apply to subcontractor performance. The contractor is responsible and shall be accountable to ensure subcontractor deliverables and products are in compliance with the contract requirements.

#### **3.1.1 Data Management (DM).**

The Government reserves the right to review all contractor generated data associated with and developed for the Cougar IROAN.

#### **3.1.2 Risk Management**

The Contractor shall provide a Risk Management Report that will be used to monitor management, cost, and schedule of assigned contract tasks risk relative to the modernization effort. The Risk Management Report shall include reporting critical risks and associated mitigation actions monthly to the Government. CDRL A004

#### **3.1.3 Configuration Control.**

The Contractor shall apply configuration control procedures to established configuration items.

a. The Contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization from the Government Contracting Officer. If it is necessary to temporarily depart from the authorized configuration, the Contractor shall prepare and submit a Request for Deviation (RFD) using MIL-HDBK-61 and ANSI/EIA-649 as guidance. The Contractor shall ensure all RFD submissions identify the precise vehicle serial numbers and USMC Registration number affected by the deviation. No recurring deviations shall be allowed. CDRL C001

b. The creation and submission of RFDs shall be accomplished using the MEARS software application that resides at a secure website, <https://mears1.redstone.army.mil>. The Contractor shall request user-id and password privileges from the LOGCOM, MRAP Configuration Management (Code P706) for the purpose of gaining access to the web site. The Contractor shall direct any technical or functional questions concerning usage of MEARS software to the MRAP Configuration Management (Code P706) for guidance. The Contractor shall notify the Requiring Office by electronic mail when completed RFDs are ready for formal submission. CDRL C001

### **3.1.4 Configuration Status Accounting (CSA)**

The contractor shall document and maintain a record of the final configuration of each Cougar CAT II vehicle completed under this PWS by Government Registration Number, Serial Number and Top Level Part Numbers. The Contractor shall utilize the Configuration Checklists contained in Appendices G through J for each Cougar repaired. Information recorded on the Configuration Checklists shall be used as a guide to record the final configuration of each vehicle and provided to the Government during final acceptance testing or inspection. CDRL C003

### **3.1.5 Stages of Corrosion.**

The contractor shall inspect for corrosion. Corrective actions required shall be performed in accordance with TM 3080-50. The Contractor shall adhere to USMC specific policy and procedures, TM-4795-OR/I, for corrosion prevention and control for any future items delivered to the Government. For any vehicle delivered, the Contractor shall identify any mitigations or instructions.

#### **3.1.5.1 Restoration.**

The Contractor shall be responsible for all structural, electrical, optics, fire control, mechanical, surface preparation, and painting requirements associated with the repair and restoration of the Cougar, as specified in this PWS. All corrosion shall be removed and treated in accordance with TM 3080-50.

### **3.1.6 Indentured Bill of Material (IBOM).**

The IBOM constitute the baseline for the Cougar CAT II A1 with ISS and may be obtained from the MRAP Configuration Management Office (P706). Any recommended change or deviation to the approved baseline shall be documented and processed per Paragraph 3.1.3 of this PWS. CDRL C001

## **3.2 Detailed Tasks.**

The Contractor shall conduct the Cougar IROAN for each vehicle within a 100 calendar day time period inclusive of the distinct phases which are below.

**3.2.1 Phase I - Pre-Induction.**

A pre-induction inspection analysis shall be performed in accordance with the Limited Technical Inspection (LTI) for each Cougar to determine extent of work and parts required. These findings shall be annotated on the LTI form and provided to PEO LS PMM-207 and LOGCOM representatives for review at the beginning of the repair tasks. Refer to Appendix C. CDRL B001.

**3.2.2 Phase II – IROAN.**

After pre-induction tests and inspections have been completed, the IROAN of the Cougar shall be accomplished in accordance with this PWS.

**3.2.2.1 Hull Crack Inspection and Repair.**

All vehicles shall be cleaned to a “near white” metal finish with SSPC-SP-10/NACE No.2, with a surface profile of 0.002” to 0.0025” (2 to 2.5 mils) and inspected using ultrasound, dye penetrate or magnetic particle for cracked, corroded, bent, distorted, missing, dented, and unserviceable components. Weldments, doors frames, doors, and suspension shall be inspected by visual and magnetic particle inspection, dye penetrate, or x-ray. Magnetic particle inspection shall be performed on all lifting eyes, tow lugs, and tie downs. Dye penetrates or magnetic particle inspection testing shall be done on all weld repairs. All hull cracks will be reported by LTIs CDRL B001 and Production Status Reports CDRL A001. Welding repair and inspection procedures shall be followed IAW TB 9-2355-328-40, Inspection and Corrective Repair Action Procedure for Mine Resistant Vehicles.

**3.2.2.2 Detailed Crack Inspection.**

The detailed hull crack inspection shall be concentrated in the following areas:

- a. All CVRJ mounts
- b. All Hoods adjacent to where the Engine Grill makes contact with the hood when closed
- c. All engine compartment firewall below and around front windshield.
- d. All Upper Control Arms on previously installed ISS equipped vehicles
- e. All Steering Arms near the Ball Mount on previously installed ISS equipped vehicles
- f. All field welding repairs

**3.2.2.3 Hull Surface Preparation.**

After inspection and repair of cracks, the hull surfaces and applicable external components shall be prepared for painting in accordance with TM 4750-OD/1. The hull and components shall be painted in accordance with TM 4750-OD/1 Chapter 2. The specified topcoat color shall be FED-STD-595, FS 33446, tan 686A, on exterior surfaces. The specified interior color shall be a MIL-PRF-22750 Class H Grade B semi-gloss tan corresponding to FED-STD-595, FS 33446, tan 686A.

Requirements:

1. Zinc-rich primer per CID A-A-59745 shall be applied over abrasively blasted steel surfaces (including armor steel) that shall have a minimum 1-mil profile and be blasted to a near white metal finish (SSPC SP-10 or NACE No. 2). Zinc-rich primer per CID A-A-59745 shall be applied per manufacturer's instructions to 2.5 to 3.5 mils dry film thickness (DFT), but at least 1-mil greater than the profile thickness.

2. CARC Epoxy primer (EP) MIL-DTL-53022 or MIL-DTL-53030 Type II or III shall be applied to a thickness of 3 to 5 mils DFT in accordance with Section 2.5 of TM 4750-OD/1.
3. The exterior topcoat, MIL-DTL-53039 or MIL-DTL-64159 shall be applied to a DFT of 2 to 4 mils.
4. In the case of interior surfaces, interior topcoat, MIL-PRF-22750 shall be applied in one coat to the required DFT of 2 to 4 mils or two coats of 1 to 2 mils each.

#### **3.2.2.4 Vehicle Repairs.**

Deficiencies noted during the Phase I LTI shall be repaired or replaced. The following tasks are required to support this IROAN effort:

a. The Contractor shall install all previously un-installed referenced MI's/TI's, and/or TB's/ECPs/SANs as required by the current modernization strategy, to bring the Cougar to Condition Code "A" in the most updated approved configuration and capability. Refer to Appendices G-J for Capability Insertions. CDRL C002 and CDRL C003

b. The Contractor shall replace all missing assemblies and missing piece parts of those assemblies to return the vehicles to a Condition Code "A" condition.

#### **Note**

For missing assemblies & missing piece parts not covered by one of the MI, TI, TB, ECP, SAN, etc., then the Contractor is responsible for purchasing and replacing any missing assemblies or piece parts on the vehicle.

c. The Contractor shall perform all Preventative Maintenance Checks and Services as required IAW TM 11202D-OR.

d. The Contractor shall replace all fluids and filters IAW TM 11202D-OI.

e. The Contractor shall repair/replace all unserviceable assemblies and piece parts of those assemblies if the assemblies and/or piece parts are found unserviceable in accordance with best commercial practices.

f. The Contractor shall replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turn-lock fasteners, safety wire, and one-time use items IAW TM 11202D-OI.

g. The Contractor shall ensure proper hardware locking devices are present on all moving mechanical assemblies.

h. The Contractor shall install/replace hardware supplied with commercial parts unless specifically prohibited.

i. The Contractor shall ensure that all Cougar engines are of current production configuration

consisting of the Caterpillar C7 Engine, Build Number 298-6151, with the latest 10 groove pulley arrangement and fan clutch, NSN 2815-01-556-1644. The Contractor shall perform Dynamometer testing on all Cougar engines and ensure that they meet OEM specifications and all accessories are applied and are Condition Code "A".

**Note**

With application of the 570 Alternator Upgrade the NSN for this engine (noted in Paragraph 3.2.2.4.i) is changed to 2815-01-615-4535 which is currently reflected in latest version of the Cougar IBOM.

j. The Contractor shall ensure that all Cougar transmissions are of current production configuration consisting of the Allison 3500 Transmission, GEN IV, NSN 2520-01-547-4017. The Contractor shall perform Dynamometer testing on all Cougar transmissions and ensure that they meet OEM specifications and all accessories are applied and are Condition Code "A".

**Note**

The NSN for the Allison 3500 Transmission, GEN IV, NSN 2520-01-547-4017 is being phased out and to be used until all stock has been exhausted. The approved replacement is NSN 2520-01-580-9860 which is currently reflected in latest version of the Cougar IBOM.

k. The Contractor shall ensure that all Cougar transfer cases are configured to the current production configuration consisting of the Cushman 315N Transfer Case, NSN 2520-01-561-1293. The Contractor shall perform Spin testing on all Cougar transfer cases and ensure that they meet OEM specifications and all parts, linkages and accessories are applied and are Condition Code "A".

**Note**

Refer to OEM Service Manual to identify correct version of Cushman 315N Transfer Case utilized on vehicle.

l. The Contractor shall inspect 100% of installed Overhead Gunners Protection Kits (OGPK). Vehicles received with MCTAGS installed will be replaced with OGPK. Vehicles that arrive without a turret will have the OGPK installed. The Contractor will ensure all OGPK turrets have Improved Turret Drive System (ITDS) and M1114 Turret Bearing Catcher Ring installed upon completion of IROAN. Any Long Lead Time concerns related to Repair Cycle Time is to be reported to PEO LS PMM-207 personnel and LOGCOM representative on the Production Status Report CDRL A001. PEO LS PMM-207 will in turn provide direction via LOGCOM on repair, replacement or Selective Interchange of turrets or turret parts in accordance with guidance given in this section and the government documents and publications referenced in this PWS:

1. M1114 Turret Bearing Catcher Ring - Ensure rotation with required amount of torque
2. ITDS components - Ensure functionality of electrical components and to ensure motor meets torque and speed requirements

m. The Contractor shall inspect 100% of the following parts and repair/replace in accordance with guidance given in this section and the government documents and publications referenced in this PWS:

1. Ballistic Glass - In accordance with Appendix F and MIL-PRF-46108
2. Tires - IAW OEM wear specifications
3. Brake Drums
4. Steering Wheel - For end play
5. Front End - Alignment
6. Cougar ISS Upper Control Arms - Cracks, fractures or deformation damage
7. Cougar ISS Steering Arms - Cracks, fractures or deformation damage
8. Drive Shaft between Transfer Case and Transmission
9. Spall liners
10. Nuclear, Biological and Chemical (NBC) System - Inspect where installed.
11. Vehicle Electrical Harnesses
12. Ibis Tek Light Kits - Check for operability and completeness of light assemblies. Install kits where not installed.
13. Turret Brush Ring for damage and/or missing mounting hardware.
14. Turret Hatch Hinge for operability damage and/or missing mounting hardware.
15. Steering Shaft and U-Joints for operability, damage and/or missing mounting hardware.

n. The Contractor shall replace 100% of the following parts:

1. Wiper Blades
2. Air hoses, both metallic and non- metallic
3. Coolant hoses
4. Hydraulic fittings, quick disconnects and hoses
5. Drive belts
6. Gauges in Instrument Panel (all Instrument Panels will be blasted, primed and painted FS 23446 686A tan)
7. OEM supplied data plates and markings and replace with IROAN Data Plate
8. Headlight/Brake Lamp/Marker Light assemblies
9. Light Bulbs
10. Winch Cables
11. Brake Shoes and all associated hardware - Springs and Brake Pistons
12. Mud-flaps
13. Tie Rod Ends and Boots
14. Ball Joint Boots
15. Batteries and Battery Cables
16. Laminate on all windows that are not replaced

### **3.2.3 Phase III – Inspection, Testing, and Acceptance.**

Inspection, testing and acceptance of the Cougar shall be conducted in accordance with the Final Inspection Report (FIR) Checklist in Appendix D, directives contained within this PWS and appropriate Cougar MIL-STD Technical Manuals (TMs) below:

- a. TM 11202D-OR - Cougar Operator's Manual
- b. TM 11202D-IN - Cougar Field Level Maintenance Manual
- c. TM 11202D-OD - Cougar Repair Parts and Special Tools List (RPSTL) Manual
- d. TM 11202D-OD/2 - Technical Manual Supplement for the MRAP Cougar Family of Vehicles
- e. TM 11202K-OI/1 - Technical Manual Maintenance Supplement ISS Brake Upgrade for Cougar MRAP
- f. TM 11202K-OR/1 - Repair Parts and Special Tools List (RPSTL) For Cougar MRAP Gunner's Protection Package

### 3.2.3.1 Acceptance.

The performance of the Contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled shall be subject to in-process review and inspection during the period of performance. Final inspection and acceptance testing shall be conducted at the Contractor's facility by either LOGCOM, PEO LS PMM-207 or DCMA Representatives on 100 percent of all vehicles to verify that the vehicles meet all requirements of this statement of work. The Contractor shall be responsible for correcting any deficiencies identified during the final inspection/testing. The Contractor shall provide weekly production reports (CDRL A001) with vehicle status and coordinate with LOGCOM and PEO LS PMM-207 personnel to schedule Final Inspections. If PEO LS PMM-207, LOGCOM, or DCMA representatives are not available for final inspection, the contractor shall request an alternate date.

#### 3.2.3.1.1 FIR Reports.

Upon final inspection and acceptance by PEO LS PMM-207 or its designated representatives, the Contractor shall provide a FIR Report for each vehicle, CDRL B002.

#### 3.2.3.2 Rejection.

Failure to comply with any of the specified requirements listed herein shall be reason for rejection by PEO LS PMM-207, Albany, GA representative. The Contractor shall, at no additional cost to the Government, correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

### 3.3 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM).

Table 2 identifies material the Government has on hand and will provide upon request as GFE/GFM to support this IROAN effort should the vehicle require replacement or repair of these items. The Contractor shall be responsible for receipt, accountability, security, storage, and reporting requirements for the GFE provided, CDRL A007. The Contractor shall return any unused GFE in the original condition as received to LOGCOM to be returned to PM MRAP, Cougar Program stores. Any repairs required as a result of Contractor possession and use shall be borne by the Contractor at no cost to the Government.

**Table 2.**

Reference Material	Item	Part Number	NSN
COUGARECP-10008	Safety Warning Labels for MRAP Vehicles	0-54	N/A
TB C00084 REV B	Modify Rear Tow Points to Accept MTRV Tow Bar	10014879	N/A

Reference Material	Item	Part Number	NSN
TB C00106 REV C TM 11202D-OD/2	Release a 570A Alt Mod for Cougar Fleet Modernization	10019789	N/A
TB C00110	Fuel Tank Protection Upgrade Kit (w/ Tanks)	10020066	2910-01-590-5420
TB C00108 REV A	AFES Modernization	10024183	6350-01-590-5472
TB C00111 REV B TM 11202D-OD/2	Transfer Case Restraint Kit (A1)	10023633	3040-01-590-5300
TB C00107 REV A TM 11202D-OD/2	First Responder (A1)	10023161	2540-01-590-5569
TB C00120 TM 11202D-OD/2	Roof Top Mount for CVRJ – REF GOVTECP10054	10024348	N/A
TB C00097 REV F TM 11202D-OI TM 11202D-OD	CAT II ISS TAK4 Upgrade (23.1K FR_36K RR)	3813069	2530-01-580-2840
TB C00110	Fuel Tank Protection Upgrade Kit (w/o Tanks)	10032533	N/A
TB C00132 TM 11202K-OI/I	6x6 ISS Brake Upgrade	10044196	N/A
MI 11202D-IN/1 COUGARECP-10029FR2A0	Door Window Seam Armor (CAT II)	M6216	N/A
MI 11202D-OR/3 COUGARECP-10017FR2A0	Rollover Detection Warning System (RDWS)	6406665G1	2590-01-616-8378
MI 11202K-OR/2 COUGARECP-10020	Gunners Accessory Package 2.0	14003559	N/A
MI 11202K-OR/1 COUGARECP-10012	Neptune Ammo Storage Kit	19200-13034717	8140-01-610-6186
TI 11202D-OR/1 COUGARECP-10007F	Stowage Safety and Awareness Kit	12563955	2540-01-603-7739
COUGARECP-10021	TOCNET, MRAP Kit A&B Cougar CAT II	5485620-001	N/A
MI 11202I/11202J-IN/1 COUGARECP-10009	Improved Turret Drive System (ITDS)	6452810-200M1	1005-01-591-0452
MI 11202I/11202J-IN/1 COUGARECP-10009	Turret Catcher	13039096-1	2510-01-603-7727

Reference Material	Item	Part Number	NSN
COUGARECP-10021	CVRJ A-Kit Installation Cougar CAT I	09003G2001	N/A
COUGARECP-10021	Cougar Whale Tail Antenna Mounting Kit	529236	N/A
COUGARECP-10040	CAT II A1 Seat Survivability Upgrade	10060417	N/A

### **3.3.1 Vehicle Installed Government Furnished Equipment (GFE).**

Upon inspection of vehicle to be inducted, additional GFE found to be installed in the vehicle shall be inspected, inventoried and reported to Cougar Program Office for further action. If repairs are needed, the contractor shall conduct the necessary repair actions on vehicle mounted GFE to return it to Condition Code "A". Vehicles will not have MRAP Communication Suite Interface Material kits installed as described in authorized configurations (Appendix K). Any wiring and bracketry that can be reused will remain in the vehicle to facilitate its use as needed. Repair procedures will be in accordance with TI 11202D-OD/1, TI 11202D-OD/2, USMC Cougar RESET C4ISR Equipment De-Integration/Stowage/Vehicle Modifications, and USMC Cougar Retained/Discarded Metalwork Document as referenced in this PWS.

### **3.4 Contractor Furnished Materiel (CFM).**

The Contractor may requisition materiel as required in the performance of the PWS through the DOD Supply System or procure commercially. DLM 4000.25-1 (MILSTRIP), Chapter 11, provides guidance to Contractors on the requisitioning process. The Contractor's decision to utilize CFM procured from the DOD Supply System or commercially shall be based upon cost effectiveness, availability of materiel, and the required completion/delivery date. CDRL A008.

### **3.5 Packaging, Handling, Storage and Transportation (PHS&T)**

#### **a. USMC Organic Depots.**

(1) Principle End Items (PEIs) - The Distribution Management Center (DMC) shall be responsible for Preservation, Packaging, and Preparation (PP&P) for shipment of Principal End items (PEIs) being rebuilt by the Marine Depot Maintenance Command (MDMC) under the terms of this PWS. DMC shall prepare items scheduled for long-term storage or shipment to overseas destinations shall be in accordance with the Level "A" requirements (unless otherwise directed) of MIL-STD-3003(AT) and MIL-STD-2073-1, Method 10 (Physical protection). DMC shall prepare items scheduled for domestic shipment for immediate use or short-term storage shall be in accordance with Level "B" requirements. This ONLY applies to PWSs for USMC PEIs undergoing rework at USMC depots.

(2) Secondary Repairables (SecReps) and select PEIs - The MDMC shall be responsible for Preservation, Packaging and Packing (PP&P) for shipment of all Secondary Repairables (SecReps) and select PEIs being rebuilt by MDMC under the terms of this PWS. MDMC shall prepare all items rebuilt for storage, domestic shipment or transit in accordance with

the Level "A" requirements of MIL-STD-3003(AT) and MIL-STD-2073-1, Method 10 (Physical protection). This statement applies to PWSs for USMC SecRep's and select PEI's undergoing rework at USMC depots. MDMC shall also be responsible for PP&P for shipment of secondary repairables and PEI's rebuilt for other Services/Customers under the terms of this PWS.

b. DIMSA or Commercial Source of Repair (SOR)

(1) SecReps and PEIs - The MDMC shall be responsible for PP&P for shipment of the SecReps and PEIs being rebuilt under the terms of this PWS. The DIMSA or Commercial SOR shall prepare all items rebuilt for domestic shipment or transit considering immediate use upon receipt by customer and in accordance with the requirements of MIL-STD-3003(AT) and MIL-STD-2073-1, Method 10 (Physical protection). Items scheduled for domestic shipment for immediate use or shipment to overseas destinations shall be Level "B", Drive-on/Drive-off. Items being prepared for overseas shipment shall have a label affixed which reads, "NOT FOR WEATHER DECK STORAGE". Items scheduled for shipment to Maritime Prepositioned Ship (MPS) shall be Level "B", MPS Modified Drive Away.

(a) Drive-on/Drive-off - Item batteries shall be hot and connected to the vehicle electrical system. Fuel tank shall be 1/4 full. The air intake, exhaust and brake systems, drive train and gauges will not be preserved.

(b) MPS - NALEB Modified Drive Away - Item batteries shall be hot and connected to vehicle electrical system. Fuel tank shall be filled 3/4 full. Air intake system, exhaust and brake systems, and gauges will not be preserved. Fire extinguisher bracket and seats (all) shall be installed.

c. Marking and Identification - For shipment and storage of all SecReps and PEIs, marking shall be in accordance with MIL-STD-642 & MIL-STD-129, ensuring the use of the Military Shipping Label (MSL).

d. The Marine Corps will provide the Contractor with the shipping address(es) for delivery of the repaired equipment. The Contractor shall be responsible for arranging for shipment to the predestinated site(s). The Marine Corps will be responsible for transportation costs associated with the shipping the subject equipment to and from the Contractor

**3.6 Quality Assurance Provisions.**

The Repair Facility shall provide and maintain a Quality System that, as a minimum, adheres to the requirements of ANSI/ISO/ASQ Q9001-20\_\_, Quality Management System-Requirements. The program shall ensure quality throughout all areas to include fabrication, processing, assembly, inspection, test, maintenance, and preparation for delivery and shipping. Unless otherwise specified in the contract, the Repair Facility shall be responsible for performance of all inspection requirements. PEO LS PMM-207 or their designated representative reserves the right to perform any of the inspections set forth in the contract where such inspections are deemed necessary to assure products and services conform to the prescribed requirements. The contractor shall provide a copy of their repair facility Quality Assurance Program Plan to the Government. CDRL A005

**3.7 Unique Identification (UID).**

The Contractor shall implement an IUID program in accordance with and as defined in MIL-STD-130 and DFARS clause 252.211-7003, to include all configuration changes. The Contractor shall ensure IUID tags are on any replacement item that is over \$5,000 in addition to those items deemed by the Government as a serially managed, mission essential or controlled inventory item in Paragraph 3.7.c. The Contractor shall update the DoD IUID Registry to identify all changed equipment that affects the IUID hierarchy. Bar coding and the 2-D IUID data matrix shall be machine-readable with common optical scanning devices and be accompanied by the corresponding human readable markings when practical. Applicable items shall be marked by a data plate that contains the IUID data matrix (whenever practical, the location of the marking on the item shall ensure its readability during normal operational use). See DFARS 211.274-2, Policy for IUID. CDRL A006

a. Vehicle Data plate. The Contractor shall ensure all vehicle data plates are permanently affixed. If missing, the Contractor shall provide data plates marked with a two dimensional UID data matrix defined in MIL-STD-130. The vehicle data plate shall use MIL-STD-130, Figure 1, as a guide. All data plate information shall also include bar coding. The data plate shall be located in the driver's compartment attached to the transmission tunnel in the location of the original data plate.

The Contractor that performed the Depot Rebuild/Repair _____ USMC No.: _____ Nomenclature: _____ NSN: _____ Part Number: _____ ID Number: _____ Original Manufactures CAGE Code: _____ Original Manufactures Registration Number: _____ Odometer reading at Limited Technical Inspection: _____ Curb Weight: _____ Payload Maximum: _____ Gross Weight Maximum: _____ Date (of Depot Rebuild/Repair Acceptance): _____
--

Figure 1

b. Configuration Item Data Plate. Shall be a minimal dimension of .750 in. X .20 in. X .020 in. thickness Flat Black Aluminum Laser etched. The 2-D Data Matrix, shall not be less than 1 cm wide and no less than 40% in contrast. The data plate shall be placed on a suitable and visible location. Parent child relationship shall be established. UID data plate is to be placed where the scanner can read the UID data plate while installed in truck.

The following information shall be etched on the new data plate:

1. Nomenclature: \_\_\_\_\_
2. National Stock Number: \_\_\_\_\_
3. Original Manufactures CAGE Code: \_\_\_\_\_
4. Original Serial Number: \_\_\_\_\_
5. Government Ownership Designation shall be: US PROPERTY
6. Rebuild date: \_\_\_\_\_

c. Data Plate Location.

1. Cougar Vehicle. The data plate shall be located in the driver's compartment attached to the transmission tunnel in the location of the original data plate. Refer to Paragraph 3.7.a
2. Cougar Engine. Data plate shall be placed on the rear of the engine's valve cover on driver side visible after mounting for scanning in the field where the scanner can read the UID data plate while the engine is installed in the truck.
3. Cougar Transmission. Data plate shall be placed on the end of the transmission where the scanner can read the UID data plate while the transmission is installed in the truck.
4. Cougar Transfer Case. Data plate shall be placed on the end of the transfer case where the scanner can read the UID data plate while the transfer case is installed in the truck.
5. Cougar Differentials. Data plates shall be placed on the differentials that are visible after mounting for scanning in the field where the scanner can read the UID data plate while the differentials are installed in the truck.
6. Cougar Alternator. The data plate shall be placed on a suitable and visible location where the scanner can read the UID data plate while the alternator is installed in the truck.

#### **4.0. REPORTS**

##### **4.1 Production Status Report.**

Contractor shall provide Production Status Reports, CDRL A001 summarizing the progress and status of the IROAN effort.

##### **4.2 Item Unique Identification (IUID) Marking Activity and Verification Report.**

Contractor shall provide Item Unique Identification (IUID) Marking Activity and Verification Reports shall be delivered in accordance with CDRL A006 summarizing the progress and status of the IUID effort.

## APPENDIX A - DEFINITIONS

1. PURPOSE. The definitions contained in this appendix are provided to assure a more complete understanding of the contents of this PWS.

### 2. DEFINITIONS.

2.1. Capability Insertion. Vehicle modifications identified as part of The Cougar Capability Insertion Program to assist in rapidly developing, integrating and fielding solutions to make the vehicles more survivable and effective.

2.2. Modification. Equipment modification consists of those maintenance actions performed to change the design or assembly characteristics of equipment systems, end items, components, assemblies, subassemblies, or parts in order to improve equipment functioning, maintainability, reliability, and/or safety characteristics.

2.3. Condition Code "A". Serviceable/issuable without qualification, new, used, repaired or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction, including materiel with more than six months shelf-life remaining.

2.4. Repairable Item. A repairable item is an item of supply subject to economical repair for which repair (accomplished under a repair contract) is considered in satisfying computed requirements at any inventory level. A major end item (aircraft, ship, combat vehicle, etc) is not normally considered a repairable item. Examples of repairable items include, but are not limited to, engines, alternators, transmissions, and electronic circuit boards.



**APPENDIX C****MINE RESISTANT AMBUSH PROTECTED (MRAP)****COUGAR CAT I & II****LIMITED TECHNICAL INSPECTION (LTI)**

<b>Inspector:</b>	<b>Date:</b>
<b>Vehicle Serial #:</b>	<b>Vehicle Type:</b>
<b>Miles/KM:</b>	<b>Hours:</b>

<b>Vehicle Type</b>	<b>NSN</b>
CAT I A1	2355-01-552-5565
CAT I A1 ISS	2355-01-581-2392
CAT I A2	2355-01-564-3420
CAT I A2 ISS	2355-01-579-8929
CAT II A1	2355-01-552-5199
CAT II A1 ISS	2355-01-579-8931
CAT II A2	2355-01-564-3423
CAT II A2 ISS	2355-01-579-8920
CAT I A1 ISS SABER/TOW	2355-01-589-1279
CAT II A2 ISS Ambulance	2355-01-583-1029

**Instructions:**

- i. Upon completion of this Limited Technical Inspection (LTI), all discrepancies and findings shall be annotated on form DA-2404 and provided to PEO LS PMM-207 and LOGCOM representatives for review at the beginning of the repair process.
- ii. Discrepancies approved for repair on the LTI and form DA-2404 shall be inspected during the FIR for completeness of the repair. The completeness of repairs and in-depth inspections will be accomplished using TM 11202D-OI.

Item No.	Item to Be Checked	Procedure	Pass/Fail	Comment/Remarks
1	Hull	Inspect hull armor plating for cracked or broken welds, bent or missing armor plates, or structural damage.		
2	Non-Skid Paint	Inspect non-skid painted surfaces: Front fender, fuel tank cover. Ensure coating is in good condition with no smooth spots.		
3	Exterior Ballistic Glass	Inspect all ballistic glass and laminate for damage.		
4	Fuel Tank	1. Inspect fuel tank sending unit and wiring for any signs of damage.		
		2. Inspect fuel tank for leaks, fuel tank cap, chain and strainer for damage or miss hardware.		
		3. Inspect fuel hose connections are tight and not leaking		
		4. Check fuel tank mounting straps for loose or missing hardware, damaged or missing rubber isolators, or any sign of visible damage.		
		5. Inspect fuel tank ballistic blankets for damage and/or missing blankets.		
5	Fuel Tank Cover	1. Inspect fuel tank ballistic cover for loose and missing mounting hardware. Damage or missing door locks hardware.		
		2. Inspect fuel tank ballistic cover for damage, missing or damaged hinges.		
6	Backup Alarm (A2 Only)	Check backup alarm for loose or missing mounting hardware, or any visible damage.		
7	Work-Light Connection	1. Inspect connector for any signs of arcing, burnt, or damage connector.		
		2. Inspect connector for loose or missing mounting hardware.		
8	NATO Connector	1. Inspect NATO connector for any signs of arcing, burnt, or damage connector.		
		2. Inspect NATO connector for loose or missing mounting hardware.		

Item No.	Item to Be Checked	Procedure	Pass/Fail	Comment
	NATO Connector Cont.	3. Inspect for correct cable connections on NATO plug to ensure polarity is correct		
9	Glad-Hand Supply and Control Connections	1. Check supply and control air coupling connections for loose or missing mounting hardware, missing or deteriorated coupling rubber grommet, or missing coupling cover.		
10	Trailer Connection	2. Check for operational relief valve on glad hands on suspension with ISS.		
		1. Inspect connection for any signs of arcing, burnt, or damage connector.		
11	Tow Pintle	2. Inspect connection for loose or missing mounting hardware.		
		1. Inspect pintle for cracked or broken welds, bent or missing arms, missing mounting hardware, or structural damage.		
12	Doors	2. Test operation of upper pintle jaw.		
13	Exterior Ballistic Glass	Test operation of doors and latches.		
14	110 V AC Outlet	1. Inspect outlet for any signs of arcing, burnt, or damage connector.		
		2. Inspect outlet for loose or missing mounting hardware.		
15	Steps and Ladder	1. Check for missing, cracked, or damaged rungs.		
16	Rear Fenders	Inspect fender for cracked or broken welds, bent or missing armor plates, or structural damage.		
17	Front Fenders	Inspect fender for cracked or broken welds, bent or missing armor plates, or structural damage.		
18	Exterior Stowage Bins	1. Check for loose or missing mounting hardware.		
		2. Check stowage compartment doors for proper operation and broken or missing latches.		
19	Exhaust System	Check exhaust pipes, muffler, clamps, and heat shields for dents, leaks, loose clamps, missing or loose heat shields, restrictions, or any visible signs of damage.		

Item No.	Item to Be Checked	Procedure	Pass/Fail	Comment
20	Exterior Air Supply System (120psi) Components	1. Check hoses and fittings for leaks.		
		2. Check air coupling connections for loose or missing mounting hardware, missing or deteriorated coupling rubber grommet, or missing coupling cover.		
21	Hood	1. Inspect hood armor plating for cracked or broken welds, bent or missing armor plates, or structural damage.		
		2. Check hood for missing plates and loose or missing mounting hardware.		
22	Front Grille	1. Inspect grille latches for cracked or broken welds, bent or missing armor latches, or structural damage.		
		2. Check mounts for loose or missing mounting hardware.		
23	Windshield Wipers	1. Check operation of windshield wipers to ensure the arms move smoothly		
		2. Check tension on windshield wiper arm and wiper blades for excessive wear, cracking, or deterioration		
24	Blackout Drive Light	1. Inspect for loose or missing hardware.		
		2. Inspect for cracked or missing lens.		
25	IR Drive Light	1. Inspect for loose or missing hardware.		
		2. Inspect for cracked or missing lens.		
26	Side Marker Lights	1. Inspect for loose or missing hardware.		
		2. Inspect for cracked or missing lens.		
27	Remote Winch Control Connector	Inspect for loose or missing hardware.		
28	Front Signal Lights	1. Inspect for loose or missing hardware.		
		2. Inspect for cracked or missing lens.		

Item No.	Item to Be Checked	Procedure	Pass/Fail	Comment
29	Headlight	1. Inspect for loose or missing hardware.		
		2. Inspect for cracked or missing lens.		
30	Cooling Fan	1. Inspect cooling fan for cracked blades or missing blades		
		2. Inspect cooling fan pulley for looseness, warping, seizing or worn bearings.		
31	Idler Pulley	1. Check idler pulley for proper spring tension.		
		2. Inspect idler pulley for looseness, wobbling, seizing or worn bearings.		
32	Vibration Damper	1. Inspect vibration damper for loose or missing mounting bolts.		
		2. Inspect vibration damper for wobble or any signs of visible damage.		
33	Engine Mounts	1. Inspect engine mounts for loose or missing mounting bolts.		
		2. Inspect engine mounts for deteriorated rubber mounts or any signs of visible damage.		
34	Valve Cover	Check valve covers for damage or loose or missing mounting hardware.		
35	Serpentine Drive Belt	Check serpentine belt for cracks, frays, and proper tension.		
36	Alternator	1. Check alternator, mounting bracket, and adjusting bracket for loose or missing mounting hardware.		
		2. Inspect alternator cooling fan for bent fins or looseness.		
		3. Inspect alternator pulley for looseness, wobbling, seizing, or worn bearings.		
		4. Inspect all alternator wiring for damaged insulation, deterioration, bare conductors, or any visible damage.		
		5. Inspect alternator cabling for cut/frayed insulation and corrosion.		
37	Water Pump	1. Inspect water pump for loose or missing mounting hardware.		

Item No.	Item to Be Checked	Procedure	Pass/Fail	Comment
	Water Pump Cont.	2. Check water pump hoses for cuts, abrasions, or loose clamps.		
		3. Check water pump pulley for looseness, warping, seizing or worn bearings.		
38	Oil Filter Housing	1. Check oil filter housing for loose or missing mounting hardware.		
		2. Inspect oil filter housing hose for cuts, abrasions, or loose fittings.		
39	Turbocharger and Waste gate Actuator	1. Check turbocharger and waste gate actuator for loose or missing mounting hardware.		
		2. Inspect turbocharger housing for cracks or signs of overheating.		
		3. Inspect waste gate actuator rod for unobstructed movement or seizure.		
		4. Inspect waste gate actuator vacuum hose for signs of deterioration and cuts.		
		5. Check turbocharger oil feed and return lines for any signs of damage		
40	Exhaust Brake	1. Inspect exhaust brake hoses and fittings for loose or damaged fittings.		
		2. Inspect exhaust brake actuation solenoid for proper operation.		
		3. Inspect mounting clamps for damage and leaks.		
		4. Inspect air actuation hose for cuts, abrasions or restrictions.		
		5. Check exhaust pipe from exhaust brake for cracks, deterioration, or any visible signs of damage.		
41	Thermostat Housing	Inspect thermostat housing for cracks and loose or missing mounting bolts.		
42	Exhaust Manifold	1. Inspect exhaust manifold for cracks, deterioration, or any visible signs of damage.		
		2. Check exhaust manifold for loose or missing mounting bolts.		

Item No.	Item to Be Checked	Procedure	Pass/ Fail	Comment
	Exhaust Manifold Cont.	3. Inspect gaskets between exhaust manifold and engine and turbocharger for signs of leakage.		
43	Transfer Case Cooler	1. Check transfer case cooler fins for damage, foreign material, or restrictions.		
		2. Check transfer case cooler for loose or missing mounting bolts, deteriorated or missing rubber isolator mounts or cracked or damaged mounting brackets.		
		3. Inspect transfer case cooler hydraulic hoses for cuts, abrasions, kinks, and restrictions.		
44	Secondary Fuel Filter, Housing, and Primer Pump	1. Check fuel filter housing for loose or missing mounting bolts.		
		2. Check primer pump for proper operation.		
45	Primary Fuel and Water Separator	1. Inspect fuel/water separator for loose or missing mounting bolts.		
		2. Inspect fuel/water separator for cracks, damaged drain valve or any signs of visible damage.		
46	Intake Air Heater Relay	1. Check relay for loose or missing mounting bolts.		
		2. Check intake air heater high voltage wire for cuts, abrasion, and any visible signs of damage.		
47	Air Inlet Manifold	Inspect air inlet manifold and elbow for loose or missing mounting bolts.		
48	Crankcase Breather	1. Inspect crankcase breather for loose or missing mounting bolts.		
		2. Inspect crankcase breather hose for restrictions, loose clamp, tears, or deterioration.		
49	Hydraulic Unit Injector Pump	1. Inspect hydraulic unit injector pump for cracks, loose mounting bolts, or any signs of visible damage.		

Item No.	Item to Be Checked	Procedure	Pass/ Fail	Comment
	Hydraulic Unit Injector Pump Cont.	2. Inspect hydraulic unit injector pump fuel and oil hoses for restrictions, cuts, abrasions, deterioration, or any signs of damage.		
50	Air Compressor	1. Inspect air compressor for loose or missing mounting bolts.		
		2. Inspect oil, coolant and air hoses for restrictions, cuts, abrasions, deterioration, or any signs of damage.		
51	Starter	1. Check starter for loose or missing mounting bolts.		
		2. Inspect starter ground and positive studs for tight connections.		
52	Engine Compartment Wiring and Components	1. Inspect engine compartment for damaged electrical components: relays, circuit breakers, sensors, or fuses.		
		2. Check all engine compartments wiring for cuts, damaged insulation, bare wires, and any signs of visible damage.		
53	Engine Control Module (ECM)	1. Check ECM for deteriorated or missing rubber mounts and loose or missing mounting hardware.		
		2. Check ECM main harness connector for cracks or any signs of visible damage.		
		3. Inspect ECM for missing or damaged test port cover, if applicable.		
		4. Check batteries and power leads for deterioration, damaged connectors, bare wire, corrosion, or damaged insulation.		
		5. Inspect battery disconnect switch cabling and connectors for cuts, frayed insulation, or corrosion.		

Item No.	Item to Be Checked	Procedure	Pass/Fail	Comment
54	Engine Compartment Air Conditioning Components	Check high pressure switch for looseness, cracks, or damaged electrical connectors.		
55	Shocks	1. Inspect shocks for missing, bent rods, oil leaks, or any sign of visible damage. 2. Inspect shocks for deteriorated shock mount bushing or loose or missing mounting hardware.		
56	Suspension	1. Check springs for cracks. 2. Inspect for cracked or loose mounting hardware. 3. Inspect spring mounts for cracks or loose or missing mounting hardware. 4. Inspect rear axle torque arms for missing mounting hardware, bends, cracks, or inability to adjust. 5. Check bump stop for dry rot or missing parts.		
57	Drive Shafts and Universal Joints	1. Check drive shafts for bends, twists, cracks, or other visible damage. 2. Inspect drive shaft for loose or missing companion flange mounting hardware. 3. Check drive shaft slip joints for excessive play. 4. Check universal joints for cracks and worn or missing needle bearings. 5. Check drive shafts and universal joints for missing grease fittings and improper lubrication.		
58	Steering Gear and Linkage	1. Check steering gear, hoses, and fittings for any signs of leakage. 2. Inspect steering gear for loose or missing mounting hardware. 3. Inspect Pitman arm for cracks, bends, or loose or missing pinch bolt.		

Item No.	Item to Be Checked	Procedure	Pass/Fail	Comment
	Steering Gear and Linkage Cont.	4. Inspect drag link for loose ball joints, bends, missing pinch bolts or will not adjust.		
		5. Inspect tie rod for loose ball joints, bends, missing pinch bolts or inability to adjust.		
		6. Check steering arm for cracks or loose mounting hardware.		
		7. Check tie rod arm for cracks or loose mounting hardware.		
		8. Inspect engine compartment steering linkage for worn or loose universal joints, support bearing, upper and lower steering knuckles, and damaged shaft splines.		
		9. Inspect steering assist cylinder for bent cylinder rod, loose ball joints or inoperability.		
59	Brake Components	1. Inspect slack adjuster for wear, bends, or any signs of visible damage.		
		2. Inspect slack adjuster for proper adjustment.		
		3. Inspect brake pads and brake shoe wear limits.		
60	Axles and Hubs	1. Inspect axles for restricted or missing breather hoses, breather caps, and vent lines.		
		2. Inspect axle input and output shaft yokes for cracks, excessive wear, and loose or missing mount nuts.		
61	Transmission	1. Check transmission for loose or missing bell housing bolts.		
		2. Check transmission output shaft and yoke for looseness.		
		3. Inspect transmission sensors, wiring and connectors for looseness, bare wires, or any signs of visible damage.		
62	Transfer Case	Check transfer case input and output shafts and yokes for looseness.		
63	Hull	Check hull access plates for missing plates and loose or missing mounting hardware.		

Item No.	Item to Be Checked	Procedure	Pass/Fail	Comment
64	Interior Ballistic Protection Module (IBPM) Panels and Spall Liners	1. Inspect IBPM panels and spall liners for missing or excessive damage.		
		2. Inspect IBPM panels and spall liners for loose or missing mounting hardware.		
65	Interior Electrical Wiring and Components	1. Check all visible wiring inside the vehicle for cuts, damaged insulation, bare wires, and any signs of visible damage.		
		2. Check all interior electrical for damaged components: relays, circuit breakers, sensors, or fuses.		
66	Automatic Fire Extinguisher System (AFES)	1. Check battery backup module.		
		2. Inspect chemical bottle pressure.		
		3. Check lock wire on manual discharge handles.		
		4. Check for damaged or obstructed automatic sensors.		
		5. Check for damaged or obstructed discharge nozzles: interior, engine, and transmission locations.		
		6. Inspect hoses for cuts, abrasions, kinks, restrictions, or any signs of visible damage.		
		7. System electronic test using valid test set.		
67	Interior Ballistic Glass	Inspect all ballistic glass for damage.		
68	Searchlight	1. Verify searchlight operation.		
		2. Inspect lens, searchlight hull seal, and other damage.		

Item No.	Item to Be Checked	Procedure	Pass/Fail	Comment
69	Troop Hatch and Turret Hatch	1. Inspect hull armor plating for cracked or broken welds, bent or missing armor plates, or structural damage.		
		2. Test operation of hatches, latches, lift cylinders, and support rods.		
70	Lift Eye Rings	Inspect eye rings for cracked or broken welds, bent or missing rings, or structural damage.		
71	Engine Operation	1. Perform Engine Startup IAW TM 11202D-OR Manual, connect CAT ET software tool and ensure engine parameters are set.		
		2. Check engine oil for correct level and any oil contamination.		
		3. Inspect engine for leaks		
72	Starter Operation	Ensure starter engages normally and engine starts quickly without unusual noises.		
73	Transmission Operation	1. Check transmission for smooth shifting through all gear ranges.		
		2. Check transmission fluid for contamination or dilution (burned).		
		3. Inspect transmission for any signs of leaks.		
74	Transfer Case Operation	1. Check that transfer case shifts into all ranges: high, low and neutral.		
		2. Check for proper operation of Speed Limiting Circuit (SLC) in All Wheel Drive (AWD) and transfer case LO Speed mode.		
75	Brake Operation	Check that brakes function properly and stop vehicle effectively.		
76	Parking Brake Operation	With parking brake applied and engine at 600-900 rpm, shift transmission into the first gear.		
77	Steering Operation	Check steering to ensure there is no binding, stiffness, excessive play or shaking.		

**APPENDIX D****MINE RESISTANT AMBUSH PROTECTED (MRAP)****COUGAR CAT I & II****FINAL INSPECTION REPORT (FIR)**

<b>Inspector:</b>	<b>Date:</b>
<b>Vehicle Serial #:</b>	<b>Vehicle Type:</b>
<b>Miles/KM:</b>	<b>Hours:</b>

Vehicle Type	NSN
CAT I A1	2355-01-552-5565
CAT I A1 ISS	2355-01-581-2392
CAT I A2	2355-01-564-3420
CAT I A2 ISS	2355-01-579-8929
CAT II A1	2355-01-552-5199
CAT II A1 ISS	2355-01-579-8931
CAT II A2	2355-01-564-3423
CAT II A2 ISS	2355-01-579-8920
CAT I A1 ISS SABER/TOW	2355-01-589-1279
CAT II A2 ISS Ambulance	2355-01-583-1029

**Instructions:**

- i. Upon completion of this Limited Technical Inspection (LTI), all discrepancies and findings shall be annotated on form DA-2404 and provided to PEO LS PMM-207 and LOGCOM representatives for review at the beginning of the repair process.
- ii. Discrepancies approved for repair on the LTI and form DA-2404 shall be inspected during the FIR for completeness of the repair.

ISS			
CAT I A1, CAT I A2, CAT II A1, CAT II A2 (Non ISS), CAT I A1 Saber/TOW, CAT II A2 Ambulance			
Item No	Item to be checked	Pass/Fail	Comment
	<b>GENERAL INSPECTION</b>		
1	All hose ends associated with the TAK-4@ ISS install are coated with Dow Corning 3140.		
2	All hardware associated with the TAK-4@ ISS install are marked as torqued.		
3	Windshield washer fluid reservoir filled.		
4	Wheel lug nuts are marked as torqued.		
	<b>AXLE #1</b>		
5	All hull mounts are properly welded to the hull.		
6	Hardstops are installed with the longer side facing the sideplate.		
7	Toe link castle nuts were torqued initially to 145 ft lbs and cotter pin installed correctly. Sample Value: Gage ID#		
8	Wheel ends and differential are full.		
9	All hose ends are coated with Dow Corning 3140.		
10	CTIS QRV vent tube installed and routed down.		
11	All 3/4 inch hardware was torqued to 375ft lbs. Sample Value: Gage ID#		
12	All 5/8 inch hardware was torqued to 210ft lbs. Sample Value: Gage ID#		
13	Differential lock sensor from straight axle installed and connected properly.		
14	All brake, CTIS, differential lock, and vent lines are connected.		
15	ABS and differential lock wiring harnesses are connected.		
	<b>AXLE #2</b>		
16	All hull mounts are properly welded to the hull.		
17	Hardstops are installed with the longer side facing the sideplate.		
18	Wheel ends and differential are full.		
19	CTIS QRV vent tube installed and routed down.		
20	All 3/4 inch hardware was torqued to 375ft lbs. Sample Value: Gage ID#		

Item No	Item to be checked	Pass/Fail	Comment
21	All 5/8 inch hardware was torqued to 210ft lbs. Sample Value: Gage ID#		
22	Differential lock sensor from straight axle installed and connected properly.		
23	All brake, CTIS, differential lock, and vent lines are connected.		
24	ABS and differential lock wiring harnesses are connected.		
25	Timing marks lined up properly on the anti-sway bar and arms.		
26	Anti-sway bar link castle nuts were torqued initially to 145ft lbs and cotter pin installed correctly. Sample Value: Gage ID#:		
27	RTV sealant has been applied to anti-sway bar splines and slot in arm, with excess removed.		
	<b>AXLE #3</b>		
28	All hull mounts are properly welded to the hull.		
29	Hardstops are installed with the longer side facing the sideplate.		
30	Wheel ends and differential are full.		
31	CTIS QRV vent tube installed and routed down.		
32	All 3/4 inch hardware was torqued to 375ft lbs. Sample Value: Gage ID#		
33	All 5/8 inch hardware was torqued to 210ft lbs. Sample Value: Gage ID#		
34	Differential lock sensor from straight axle installed and connected properly.		
35	All brake, CTIS, differential lock, and vent lines are connected.		
36	ABS and differential lock wiring harnesses are connected.		
37	Timing marks lined up properly on the anti- sway bar and arms.		
38	Anti-sway bar link castle nuts were torqued initially to 145ft lbs and cotter pin installed correctly. Sample Value: Gage ID#		

Item No	Item to be checked	Pass/Fail	Comment
39	RTV sealant has been applied to anti-sway bar splines and slot in arm, with excess removed.		
	<b>STEERING SYSTEM INSTALL</b>		
40	System and reservoir is full.		
41	Steering gear poppets were set.		
42	Steering pump and system was primed.		
43	U-joints don't bind or go out of phase during operation.		
44	Steering shafts connected and splines are coated with Tef-Gel.		
	<b>AIR SYSTEM INSTALL</b>		
45	No leaks in the air system.		
46	Check valves installed in the proper orientation before each of the existing reservoir tanks.		
47	All tubing and harnesses are secured through cushion clips or with cable ties.		
48	All seats and access panels were reinstalled.		
49	All tubing is free of kinks.		
	<b>AFTERCOOLER INSTALL</b>		
50	Fire sleeve installed on braided 2001 line.		
51	Braided 2001 line is kept away from other nylon tubes or other heat sensitive material.		
52	All wire harness connections are connected.		
53	All tubing and harnesses are secured through cushion clips or with cable ties.		
54	Grounding terminal was connected when battery box was reinstalled.		
	<b>ELECTRICAL SYSTEM INSTALL</b>		
55	All wire harnesses are secured through cushion clips or with cable ties.		
56	CTIS controller lighting is off in Black Out Mode.		
	<b>SUSPENSION ALIGNMENT</b>		
57	All toe link jam nuts are tight.		
58	All toe link jam nuts have the washer bent over.		
59	All wheels are straight to a 1/16" toed in.		
	<b>FENDER REWORK</b>		
60	All fenders have been reworked.		
61	No sharp edges on the fender exterior from the rework.		
Item No	Item to be checked	Pass/Fail	Comment
	<b>TRANSFER CASE COVER</b>		

62	Cover does not contact any hoses or prop shafts.		
<b>SKYDEX FLOOR</b>			
63	All panels are securely attached to the floor.		
<b>ROAD TEST</b>			
64	No noise or vibration in axles.		
65	No heat buildup in axles (Place hand near axle to detect).		
66	No noise or vibration from prop shafts.		
67	CTI passes functionality test.		
68	No heat buildup on brakes (Place hand near axle to detect).		
69	Brake spring hold functional check.		
<b>REWORK</b>			
70	Any associated FIR characteristics affected during rework have been rechecked.		
<b>Crew Seat Support Structure (Seat Stanchions)</b>			
<b>CAT I A2, CAT II A2, CAT I A2 ISS, CAT II A2 ISS</b>			
<b>Item No</b>	<b>Item to be checked</b>	<b>Pass/Fail</b>	<b>Comment</b>
1	Ensure each rear crew seat is equipped with a Seat Support.		
2	Inspect each rear crew seat support Vibration Damping Isolator Pad for correct adjustment and jam nuts are tightened.		
<b>Seat Survivability</b>			
<b>CAT I A1, CAT I A1 ISS</b>			
<b>Item No</b>	<b>Item to be checked</b>	<b>Pass/Fail</b>	<b>Comment</b>
1	Inspect Secondary and CTIS Air Tank mounts for loose or missing mounting hardware.		
2	Inspect Secondary and CTIS Air Tank hoses to ensure connections are tight.		
3	Inspect air lines and hoses in transmission tunnel area (interior and exterior) to ensure all connections have been made and are tight.		
4	Inspect Driver Dead Pedal for proper installation and paint.		
5	Inspect Air Tank Protection Box, CTIS controller Inspection Plate and Primary Air Protection Plate for proper installation and missing mounting hardware		
6	Inspect Weldment Storage Cover and Plate for missing mounting hardware.		
7	Inspect Radio Rack installation for loose or missing mounting hardware.		

Item No	Item to be checked	Pass/Fail	Comment
8	Ensure Skydex Panels have been installed on Crew, Driver, Co-Driver floor and Driver Dead Pedal.		
9	Inspect Driver and Co-Driver seat for loose or missing hardware and mounted correctly.		
10	Inspect Crew seats for loose or missing hardware and mounted correctly.		
11	Inspect 300A Inverter Fuse for loose or missing mounting hardware and ensure cables are connected and tight.		
12	Inspect all welded areas, exposed metal, and "45 degree hull" for CARC paint.		
13	Inspect weld areas.		
<b>Transfer Case Restraint</b>			
<b>CAT I AI, CAT II AI, CAT I AI ISS, CAT II AI ISS</b>			
Item No	Item to be checked	Pass/Fail	Comment
1	Inspect Transfer Case mounts for missing or loose hardware.		
2	Inspect air lines and hoses in transmission tunnel area (interior and exterior) to ensure all connections have been made and are tight.		
3	Ensure hoses are connected to ISS After Cooler mounted inside fuel tank enclosure (co-driver side).		
4	Inspect weld areas for cracks.		
5	Inspect transfer case containment shield and weld areas to ensure CARC paint has been applied.		
<b>Automatic Fire Extinguishing System (AFES)</b>			
<b>CAT I AI, CAT II AI, CAT I AI ISS, CAT II AI ISS</b>			
Item No	Item to be checked	Pass/Fail	Comment
1	Check battery backup module.		
2	Inspect chemical bottle pressure.		
3	Check lock wire on manual discharge handles.		
4	Check for placement and damaged or obstructed automatic sensors.		
5	Check for placement and damaged or obstructed discharge nozzles: interior, engine, and transmission locations.		
6	Inspect hoses for cuts, abrasions, kinks, restrictions, or any signs of visible damage.		
7	Conduct system electronic test using valid AFES test set.		

<b>First Responder</b>			
<b>All Cougar Vehicles</b>			
<b>Item No</b>	<b>Item to be checked</b>	<b>Pass/Fail</b>	<b>Comment</b>
1	Inspect operation of First Responder unlatching arm to ensure the rear hatch can be unlatched from the outside using the First Responder tool when rear hatch combat lock is engaged.		
2	Inspect weld areas for cracks.		
3	Inspect First Responder weld areas to ensure CARC paint and any markings have been applied.		
<b>Fuel Tank Protection</b>			
<b>CAT I AI, CAT II AI, CAT I AI ISS, CAT II AI ISS</b>			
<b>Item No</b>	<b>Item to be checked</b>	<b>Pass Fail</b>	<b>Comment</b>
1	Ensure a 60 gallon fuel tank is mounted on the driver side and a 10 gallon fuel tank is mounted on the co-driver side of the vehicle.		
2	Ensure fire suppression blankets surround both fuel tanks.		
3	Inspect fuel lines and air lines to ensure connections are tight.		
4	Inspect weld areas around fuel tank support brackets for cracks.		
5	Inspect Fuel Tank support bracket weld areas to ensure CARC paint has been applied.		
<b>570 Amp Alternator</b>			
<b>All Cougar Vehicles</b>			
<b>Item No</b>	<b>Item to be checked</b>	<b>Pass/Fail</b>	<b>Comment</b>
1	Inspect alternator mounts for loose or missing hardware.		
2	Ensure regulator set point is set to position I (on underside of regulator).		
3	Ensure serpentine belt has been routed correctly.		
4	Inspect cables and wiring for loose or missing hardware.		
5	Inspect routing of cables and wiring and ensure cables and wiring are secured with appropriate tiedowns.		
6	Inspect positive bus bar, located on battery box, to ensure rubber coating has been applied.		
7	Inspect negative bus bar, located on steering gear bracket, to ensure rubber coating has been applied.		
8	Inspect batteries for correct placement IAW vehicle battery connection diagram.		
9	Start engine and check battery gauge to ensure batteries are charging.		
<b>Seat Survivability</b>			
<b>CAT II AI, CAT II AI ISS</b>			
<b>Item No</b>	<b>Item to be checked</b>	<b>Pass/Fail</b>	<b>Comment</b>
1	Inspect Secondary and CTIS Air Tank mounts for loose or missing mounting hardware.		

2	Inspect Secondary and CTIS Air Tank hoses to ensure connections are tight.		
3	Inspect air lines and hoses in transmission tunnel area (interior and exterior) to ensure all connections have been made and are tight.		
4	Inspect Driver Dead Pedal for proper installation and paint.		
5	Inspect Air Tank Protection Box, CTIS controller Inspection Plate and Primary Air Protection Plate for proper installation and missing mounting hardware		
6	Inspect Weldment Storage Cover and Plate for missing mounting hardware.		
7	Inspect Radio Rack installation for loose or missing mounting hardware.		
8	Ensure Skydex Panels have been installed on Crew, Driver, Co-Driver floor and Driver Dead Pedal.		
9	Inspect 300A Inverter Fuse for loose or missing mounting hardware and ensure cables are connected and tight.		
10	Inspect all welded areas, exposed metal, and "45 degree hull" for CARC paint.		
11	Inspect weld areas for cracks.		
<b>18K Winch</b>			
<b>CAT I A2, CAT II A2, CAT I A2 ISS, CAT II A2 ISS</b>			
Item No	Item to be checked	Pass/Fail	Comment
1	Inspect winch mounting bracket for missing or loose hardware.		
2	Ensure winch cable pays out on top of winch drum.		
3	Inspect winch electrical cabling for correct routing and connections.		
4	Inspect winch fairlead for missing or loose hardware. Ensure rollers are secured correctly.		
5	Ensure safety hook and coupler halves are secured to the winch cable.		
6	1. Verify winch operation using WINCH switch on dash: (a) With vehicle BATTERY switch in ON position, press and hold top of WINCH switch. (b) Have assistant verify that winch pays out wire rope until switch is released. (c) Press and hold bottom of WINCH switch. (d) Have assistant verify that winch reels in wire rope until switch is released.		
7	1. Verify winch operation using winch remote controller: (a) With vehicle BATTERY switch in ON position, push up on button of winch remote controller and verify that wire rope pays out. (b) Push down on button of winch remote controller to pay in wire rope.		

**APPENDIX E**

**Cougar Vehicle Configuration Tree**

<b>Readily Identifiable Characteristics</b>				
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Identification Number	11202D	11202K	11291D	11291I
Variant	MRAP A1	MRAP A1	MRAP A1	MRAP A1
Number Of Axles	2	2	3	3
Side Body Windows (Passenger)	1	1	3	3
Roof Height Above Side Body Windows (inches)	3	3	3	3
Spare Tire Mount	No	No	No	No
Solid Front Bumper With Pintle Hook	No	No	No	No
Blast Deflection Under Body, Window Or Door (B, W, D)	W		WD	
Lifting Eyes Tabs/Rings	Rings	Rings	Rings	Rings
HVAC Unit Installation Drivers Side/Passenger Side (LS, RS)	No	No	LS	LS

Other Features	Note			
Tabs may have been replaced with rings but original base will remain.	1			
3 Two prong hinges per rear door.	2			
2 or 3 alternately placed roof hatches, front on centerline of vehicle.	3			
Bumper integrated winch	4			
Drop down tables and storage cages	5			
No tire ramps or mounts.	6			
Rectangular headlights	7			

**APPENDIX F**

**MRAP Transparent Armor (Ballistic Glass) Inspection Criteria**

The purpose of these inspection criteria is to provide generic inspection procedure to perform checks on the transparent armor/ballistic glass installed on MRAP vehicles with non-ballistic damage. Each window glass surface outside and inside are covered by laminates. All peel ply layers of protective laminates on the windows should be removed prior to inspection. If window passes inspection in accordance with the below criteria, install new laminates on the outside and inside window surfaces in accordance with TM 11202D-OR (WP 0005-1 and WP 0005-2). This does not supersede or replace any vehicle specific maintenance checks and criteria already in the vehicle technical manuals or DOD specifications.

Vehicle Serial Number:

Vehicle Category:

Inspected By:

Date Inspected:

Criteria	Pass	Fail
1. Severe damage that perforates more than one layer of glass (i.e. exposing glass below the first layer). The decision for replacement should be made based on visibility concerns rather than concerns of degraded ballistic.		
2. Any rock chip or spider crack that impairs vision over more than 20% of viewing area or in direct line of sight of occupant's view through ballistic glass. Cracks in any layer except the plastic layers opposite the strike face are ballistically insignificant and the decision for replacement should be made based on visibility concerns rather than concerns of degraded ballistic performance.		
3. Significant delamination or cloudiness covering over 30% of viewing area which impairs vision and may possibly compromise the coating which adds to the integrity characteristics of the glass. The decision for replacement should be made based on visibility concerns rather than concerns of degraded ballistic performance.		
4. Any size crack in the interior plastic layer as this layer serves as the spall containment layer.		
5. Broken or damaged potting seals which have the potential to lead to delamination, subsequent clouding and loss of visibility. The criteria for replacement should be made based on visibility concerns rather than concerns about degraded ballistic performance.		

**APPENDIX G****Cougar ECP Checklist**

Vehicle Serial Number:

Vehicle Category:

Inspected By:

Date Inspected:

<b>ECP NUMBER</b>	<b>TITLE</b>	<b>CAT I A1</b>	<b>CAT II A1</b>	<b>YES/NO/NA</b>
FPIECP10050R1	Release A 570A Alternator Modification For Cougar Fleet Modernization	X	X	
FPIECP10170	Cougar - Engine Air Pre-Cleaner Kit (CN 00512)	X	X	
FPIECP10191R1	Cougar-5031: Add Co-Driver Kickplate	X	X	
FPIECP10202	Cougar - CAT II TAK4 ISS Upgrade		X	
FPIECP100004R1	Modify Tow Points to Accommodate US Marine MTRV Tow Bar Front	X	X	
FPIECP10006	Modify Rear Tow Points to Accept MTRV Tow Bar Rear	X	X	
FPIECP10022R1	MRAP Front Tie Down Assembly Update-Updated to Future A1 Retrofit	X	X	
FPIECP10026	MRAP CAT1 and CAT2 Hatch Module Handle Change	X	X	
FPIECP10039	Front Trailer Tow Compliance, Female to Male Fitting - PERF. SPEC 3.1.21.5	X	X	
FPIECP10139	Transfer Case Restraint Fleet Modernization (A1)	X	X	
FPIECP10164R2	Cougar - Release First Responder Kit (A1)	X	X	
FPIECP10182R1	Cougar - Provide Roof Top Mount For GFE CVRJ -REF GOVTECP10054	X	X	
FPIECP10203FR2A0	Cougar - Modernization: Fuel Tank Protection Kit W/O Tanks (A1)	X	X	
FPIECP10112R2	Cougar Modernization: Fuel Tank Protection Kit W/Tanks	X	X	
FPIECP10113FR1	AFES Modernization Crew Protection 6x6		X	
FPIECP10214FR4A0	COUGAR - 6x6 ISS Brake Upgrade		X	
COUGARECP-10008	Safety Warning Labels for MRAP vehicles	X	X	
COUGARECP-10015	Battery Box Mod Kit	X	X	
COUGARECP-10022	GFE A-Kit USMC Cougar CAT II A1 DV185		X	
COUGARECP-10017FR2A0	Rollover Detection Warning System (RDWS)	X	X	
COUGARECP-10020	Gunners Accessory Package (GAP) 2.0	X	X	
COUGARECP-10012	Neptune Ammo Storage Kit	X	X	
COUGARECP-10007F	Safety Stowage and Awareness Placards	X	X	
COUGARECP-10009	ITDS and Turret Catcher	X	X	
COUGARECP-10029R2	Door Window Seam Armor (CAT II)		X	
COUGARECP-10010	Gunner Protection Platform	X	X	
COUGARECP-10040	CAT II A1 Seat Survivability Upgrade		X	

**APPENDIX H****Cougar Technical Bulletins**

Vehicle Serial Number:

Vehicle Category:

Inspected By:

Date Inspected:

<b>TB NUMBER</b>	<b>TITLE</b>	<b>REMARKS</b>	<b>YES</b>	<b>NO</b>
TB C00059 REV A	Cougar Front Towing Receptacle Retrofit (Revision A)			
TB C00084 REV B	Front and Rear Tow Eye and Tiedown Attachment Upfit			
TB C00087 REV A	Battery Disconnect Switch Relocation			
TB C00097 REV F	Cougar Independent Suspension System (ISS) Retrofit			
TB C00106 REV C	Cougar 570 Amp Alternator Upfit			
TB C00107 REV A	Cougar First Responder Upgrade			
TB C00108 REV A	Cougar A1 Automatic Fire Extinguisher System Upgrade			
TB C00110	Fuel Protection Modernization Kit Installation			
TB C00111 REV D	Cougar A1 Transfer Case Restraint Kit			
TB C00116 REV B	Cougar Co-Driver Kick Panel Upfit			
TB C00120	Crew Vehicle Receiver/Jammer Roof Mount			
TB C00132	Cougar CAT II ISS Brake Upgrade			

**APPENDIX I****Cougar MAN/SAN Checklist**

Vehicle Serial Number:

Vehicle Category:

Inspected By:

Date Inspected:

<b>SAN NUMBER</b>	<b>TITLE</b>	<b>REMARKS</b>	<b>YES</b>	<b>NO</b>
MAN-C-0024	ISS Rear Axle Pinion Nut And Input Shaft Seal			
MAN-C-0035	Differential Drain and Fill Plug Torque Specification			
SAN-C-018	Bendix SR-7 Brake Valve			
SAN-C-021A	Reversed Winch Cable Spooling			
SAN-C-022	Door Latches and Lock Pins			
SAN-C-023	Steering Column Weld			
SAN-C-024	Radio Electrical Cable Chafing			
SAN-C-025	Reversed ABS Sensor Wiring			
SAN-C-026A	AFES Deactivation			
SAN-C-027	Power Up Power Down Procedures			
SAN-C-028	Inverter Shock Hazard			
SAN-C-029	Front Air Brake Line and Fittings			
SAN-C-031	Cougar MRAP Driver and Co- Driver Seat height Adjuster			
SAN-C-033	Cougar MRAP Transportability Tie down			
SAN-C-035	Cougar NATO Cable Wiring			
SAN-C-038	ISS Rear Axle Pinion Nut and Pinion Shaft Seal			
SAN-C-039	Rear Hatch Gas Strut Failure			

**APPENDIX J****Cougar MI/TI/SI Checklist**

Vehicle Serial Number:

Vehicle Category:

Inspected By:

Date Inspected:

MI/TI/SI NUMBER	TITLE	Install Date	YES	NO
MI 11202/11291-IN/3	Gunners Protection Package System Installation for Force Protection Industries Inc., Category I and II Mine Resistant Ambush Protected Vehicle (GPP FPII Conversion Instructions)			
MI 1A.ANTBAR	Whaletail			
MI 11202D/11291D-OR/1	12K Winch OLI			
MI 11202D-OI/1	Windshield Wiper, Control Module and Jumper Harness Replacement			
MI 11202K-OD/1	Installation Instructions for Front Towing Receptacle Retrofit and Steering Column Diode Jumper Harness			
MI 2350-IN	Relocation of Front Towing Harness Receptacle MRAP Vehicle			
MI 8J826B-IN	Cougar CAT II 360 Degree Light Upgrade Kit			
TI 11291D-IN	Install Instructions Egress Light Kit Tape CAT II			
SI 11202K-OD/1	Replacement and Evacuation Program For The Family Of Mine Resistant Ambush Protected Vehicles			
MI 11202I/11202J-IN/1	Installation of M1114 Turret Bearing Catcher Ring with Improved Turret Drive System Upgrade and Battery Box Upgrade onto Cougar Mine Resistant Ambush Protected Vehicles			
TI 11202D-OR/1	Installation Instructions for the Stowage Safety and Awareness Kit on the Cougar Category I and Category 2 Mine Resistant Ambush Protected Vehicle			
MI 11202K-OR/1	Installation of the Neptune Ammo Storage Kit onto Cougar Mine Resistant Ambush Protected Vehicles with Objective Gunner Protection Kit M1114			
MI 11202K-OR/2	Installation Instructions For Gunner Accessory Package 2.0 Cougar Mine Resistant Ambush Protected Vehicle			
MI 11202D-OR/3	Rollover Detection and Warning System Installation onto the Cougar Mine Resistant Ambush Protected Family of Vehicles			
MI 11202D-IN/1	Door Window Seam Armor Modification For Mine Resistant Ambush Protected Cougar, A1 and A2 Vehicles			

**APPENDIX K****Approved Table of USMC MRAP Authorized GFE**

Vehicle Serial Number:

Vehicle Category:

Inspected By:

Date Inspected:

Function	GFE	PRE-RESET	POST-RESET	UURI/SSRI	Yes/No
Weapon Station	OGPK	1:1	1:1	SSRI	
CREW	CVRJ	1:1	1:1	SSRI	
Vision Enhancer	DVE	1:1	1:1	SSRI	
	VOSS (R2C) (190)	2:1 ea. R2C SET	2:1 ea. R2C SET	UURI	
Vehicle Intercom	VIC-3 (Retained Where Installed)	1:1	1:1	SSRI	
	TOCNET	1:1	1:1	SSRI	
COMM	VRC-103 (Retained Where Installed)	1:5	X	UURI	
	VRC-104 (Retained Where Installed)	1:15	X	UURI	
	VRC-110	1:1	1:1	SSRI	
	MT-6352	1:1	X	SSRI	
C2	FBCB2 - BFT	1:1	1:1	SSRI	
	DAGR	1:1	1:1	SSRI	
C4ISR	Integrated Bridge System (IBS)	1:1	1:1	SSRI	
Safety	Gunners Restraints	1:1	1:1	SSRI	
	360 Degree Lighting	1:1	1:1	SSRI	
	Check Six system rear Camera	1:1	1:1	SSRI	





CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 1704-0188					
The Public reporting burden for this collection of information is authorized to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contract Officer for the contract/TR No. listed in block E.										
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ Other XXX _____						
D. SYSTEM/ITEM MRAP Cougar Vehicles			E. CONTRACT/PR No.		F. CONTRACTOR					
1. DATA ITEM No. A003	2. TITLE OF DATA ITEM CONFERENCE/MEETING MINUTES			3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) DI-ADMIN-81250A			5. CONTRACT REFERENCE PWS Paragraph(s) 1.1.e		6. REQUIRING OFFICE Marine Corps Logistics Command, Albany (LOGCOM), Maintenance Management Center (MMC), Code P635					
7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION						
8. APP CODE A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE	b. COPIES	Draft	Reg	Repro			
16. REMARKS  BLK 9 – The following information shall be included on the deliverable: Distribution authorized to U.S. Government agencies and their contractors; Administrative or Operational Use, date CDRL was signed. Other U.S. requests for this document shall be referred to Commander, MARCORSSYSCOM (Attn: MRAP), 2200 Lester Street, Quantico, VA 22134-6050  BLK 12 – Initial submission of draft minutes shall be submitted 10 calendar days after completion of the postaward conference. The Government requires 5 calendar days for review. Submit final, with Government comments incorporated, 5 calendar days after receipt of Government comments.  All draft minutes for meetings scheduled, as required, shall be submitted 24 hours after the conclusion of meeting.  BLK 13 - All subsequent draft minutes shall be submitted 10 calendar days after each conference, meeting, audit, or review. The Government requires 5 calendar days to review. Submit final, with Government comments incorporated, 5 calendar days after receipt of Government comments.  All draft minutes for subsequent meetings scheduled, as required, shall be submitted 24 hours after the conclusion of meeting.  BLK 14 – Submissions shall be via electronic mail (e-mail). The submission shall be prepared and delivered in current Microsoft Office Software Suite in Contractor format.  E-mail address follows the addressee below:  smblogger@usmc.mil Cougar_deliverables@usmc.mil smblogger@usmc.mil				Email addresses	1	1	0			
15. TOTAL				1	1	0				
G. PREPARED BY: Tony Goodman		H. DATE 11 December 2014	I. APPROVED BY: <i>Kyle Tel</i>		J. DATE 2 FEB 15					

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 1704-0188							
The Public reporting burden for this collection of information is authorized to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contract Officer for the contract/PR No. listed in block E.													
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ Other <u>XXX</u>									
D. SYSTEM/ITEM MRAP Cougar Vehicles			E. CONTRACT/PR No.		F. CONTRACTOR								
1. DATA ITEM No. A004	2. TITLE OF DATA ITEM RISK MANAGEMENT STATUS REPORT				3. SUBTITLE								
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81809			5. CONTRACT REFERENCE PWS Paragraph(s) 3.1.2			6. REQUIRING OFFICE Marine Corps Logistics Command, Albany (LOGCOM), Maintenance Management Center (MMC), Code P635							
7. DD 230 REQ. LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY MTHLY		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION							
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16			a. ADDRESSEE	b. COPIES						
16. REMARKS  BLK 9 – The following information shall be included on the deliverable: Distribution authorized to U.S. Government agencies and their contractors; Administrative or Operational Use, date CDRL was signed. Other U.S. requests for this document shall be referred to Commander, MARCORSSYSCOM (Attn: MRAP), 2200 Lester Street, Quantico, VA 22134-6050  BLK 12 – The first Submission will be one month after contract award.  BLK 13 – Subsequent reports shall be submitted on the fifteenth (15th) of every month.  BLK 14 – Submissions shall be via electronic mail (e-mail). The submission shall be prepared and delivered in current Microsoft Office software suite in Contractor format.  E-mail address follows the addressee below:  smblogcommcmsb@usmc.mil Cougar_deliverables@usmc.mil smblogcommrap@usmc.mil						Email addresses	0	1	0				
15. TOTAL						0	1	0					
G. PREPARED BY: Tony Goodman			H. DATE 11 December 2014		I. APPROVED BY: <i>Thyler Turk</i>		J. DATE 2 FEB 15						

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE





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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ Other <b>XXX</b>					
D. SYSTEM/ITEM <b>MRAP Cougar Vehicles</b>			E. CONTRACT/PR No.		F. CONTRACTOR				
1. DATA ITEM No. <b>A007</b>	2. TITLE OF DATA ITEM <b>GOVERNMENT FURNISHED INFORMATION DEFICIENCY REPORT</b>			3. SUBTITLE					
4. AUTHORITY (Data Acquisition Document No.) <b>DI-MGMT-80596</b>			5. CONTRACT REFERENCE <b>PWS Paragraph(s) 3.3</b>		6. REQUIRING OFFICE <b>Marine Corps Logistics Command, Albany (LOGCOM), Maintenance Management Center (MMC), Code P635</b>				
7. DD 250 REQ. <b>LT</b>	9. DIST STATEMENT REQUIRED <b>C</b>	10. FREQUENCY <b>ASREQ</b>	12. DATE OF FIRST SUBMISSION <b>SEE BLK 16</b>	14. DISTRIBUTION					
8. APP CODE <b>A</b>		11. AS OF DATE <b>N/A</b>	13. DATE OF SUBSEQUENT SUBMISSION <b>SEE BLK 16</b>	a. ADDRESSEE		b. COPIES			
16. REMARKS						Draft			
						FINAL			
<p>BLK 9 – The following information shall be included on the deliverable: Distribution authorized to U.S. Government agencies and their contractors; Administrative or Operational Use, date CDRL was signed. Other U.S. requests for this document shall be referred to Commander, MARCORSYSCOM (Attn: MRAP), 2200 Lester Street, Quantico, VA 22134-6050</p> <p>BLK 12 – Reports shall be submitted 10 calendar days after identification of GFE/GFI deficiency. The Government requires 15 calendar days to review and comment. Final report will be provided to the Government within 5 calendar days after receipt of Government comments.</p> <p>BLK 13 – Subsequent submissions shall be submitted 30 calendar days after identification of any additional GFE/GFI deficiency. The Government requires 15 calendar days to review and comment. Final report will be provided to the Government within 5 calendar days after receipt of Government comments.</p> <p>BLK 14 – Submission shall be via electronic mail (e-mail). The submission shall be prepared and delivered in current Microsoft Office Software Suite. If a DD1348 is provided it shall also be submitted. E-mail address follows the addressee below:                       smblogcommcmsgb@usmc.mil                      Cougar_deliverables@usmc.mil                      smblogcommrap@usmc.mil</p>				Email Addresses		1	1	0	
15. TOTAL				1	1	0			
G. PREPARED BY: Tony Goodman			H. DATE 11 December 2014	I. APPROVED BY: <i>Hyde Tol</i>		J. DATE 2 FEB 15			

17. PRICE GROUP
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CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>						Form Approved OMB No. 1704-0188		
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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ Other <u>XXX</u>				
D. SYSTEM/ITEM MRAP Cougar Vehicles			E. CONTRACT/PR No.		F. CONTRACTOR			
1. DATA ITEM No. A008	2. TITLE OF DATA ITEM GOVERNMENT FURNISHED MATERIAL CONSUMPTION REPORT				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80438B			5. CONTRACT REFERENCE PWS Paragraph(s) 3.4			6. REQUIRING OFFICE Marine Corps Logistics Command, Albany (LOGCOM), Maintenance Management Center (MMC), Code P635		
7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY MTHLY		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION		
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION MTHLY		a. ADDRESSEE	b. COPIES		
16. REMARKS  BLK 9 -- The following information shall be included on the deliverable: Distribution authorized to U.S. Government agencies and their contractors; Administrative or Operational Use, date CDRL was signed. Other U.S. requests for this document shall be referred to Commander, MARCORSSYSCOM (Attn: MRAP), 2200 Lester Street, Quantico, VA 22134-6050  BLK 12 -- Initial submission due 30 calendar days after first vehicle induction.  BLK 13 -- The contractor shall submit updates to the government on a monthly basis no later than the 5th of each month.  BLK 14 -- Submission shall be via electronic mail (e-mail). The submission shall be prepared and delivered in current Microsoft Office Software Suite. If a DD1348 is provided it shall also be submitted. E-mail address follows the addressee below:  smblogcommmcnsb@usmc.mil Cougar_deliverables@usmc.mil smblogcommrap@usmc.mil					Draft	FINAL		
					Email Addresses	1	1	0
					15. TOTAL	1	1	0
G. PREPARED BY: Tony Goodman			H. DATE 11 December 2014		I. APPROVED BY: <i>Thyler Tule</i>		J. DATE 2 FEB 15	
DD FORM 1423-1, AUG 96 (EG)			PREVIOUS EDITION MAY BE USED					

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 1704-0188			
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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ Other XXX _____					
D. SYSTEM/ITEM MRAP Cougar Vehicles			E. CONTRACT/PR No.		F. CONTRACTOR				
1. DATA ITEM No. B001	2. TITLE OF DATA ITEM TEST/INSPECTION REPORT				3. SUBTITLE LIMITED TECHNICAL INSPECTION (LTI) REPORT				
4. AUTHORITY (Data Acquisition Document No.) MIL-DTL-5096			5. CONTRACT REFERENCE PWS Paragraph(s) 3.2.1, 3.2.2.1			6. REQUIRING OFFICE Marine Corps Logistics Command, Albany (LOGCOM), Maintenance Management Center (MMC), Code P635			
7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16			a. ADDRESSEE	b. COPIES		
<p>16. REMARKS</p> <p>BLK 9 – The following information shall be included on the deliverable: Distribution authorized to U.S. Government agencies and their contractors; Administrative or Operational Use, date CDRL was signed. Other U.S. requests for this document shall be referred to Commander, MARCORSYSCOM (Attn: MRAP), 2200 Lester Street, Quantico, VA 22134-6050</p> <p>BLK 12 – In support of Phase I – Pre Production, LTIs will be submitted for each Cougar vehicle at the beginning of any repair tasks. The format shall be LTI provided in appendix C.</p> <p>BLK 13 – Subsequent submissions shall be as required if updates are required following review by PEO LS PMM-207 or its designated representatives.</p> <p>BLK 14 – Submission shall be via electronic mail (e-mail). The submission shall be prepared and delivered in current Microsoft Office Software Suite.</p> <p>E-mail address follows the addressee below:</p> <p>smblogcommmcsb@usmc.mil Cougar_deliverables@usmc.mil smblogcommrap@usmc.mil</p>						Draft	FINAL		
						Email Addresses	1	1	0
15. TOTAL						1	1	0	
G. PREPARED BY: Tony Goodman			H. DATE 11 December 2014		I. APPROVED BY: <i>Hyde Tull</i>		J. DATE 2 FEB 15		

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP                      TM                      Other <u>XXX</u>				
D. SYSTEM/ITEM MRAP Cougar Vehicles			E. CONTRACT/PR No.		F. CONTRACTOR			
1. DATA ITEM No. C003	2. TITLE OF DATA ITEM INSTALLATION COMPLETION NOTIFICATION			3. SUBTITLE CONFIGURATION CHECKLISTS				
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-81245			5. CONTRACT REFERENCE PWS Paragraph(s) 3.1.4, 3.2.2.4.a		6. REQUIRING OFFICE Marine Corps Logistics Command, Albany (LOGCOM), Maintenance Management Center (MMC), Code P635			
7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE		b. COPIES		
16. REMARKS  BLK 9 – The following information shall be included on the deliverable: Distribution authorized to U.S. Government agencies and their contractors; Administrative or Operational Use, date CDRL was signed. Other U.S. requests for this document shall be referred to Commander, MARCORSYSCOM (Attn: MRAP), 2200 Lester Street, Quantico, VA 22134-6050  BLK 12 – Checklists will be submitted for each Cougar vehicle repaired. The format shall be the checklists provided in appendices G-J.  BLK 13 – Subsequent submissions shall be if additional repairs are required after inspection.  BLK 14 – Submission shall be via electronic mail (e-mail). The submission shall be prepared and delivered in current Microsoft Office Software Suite.  E-mail address follows the addressee below:  smblogcommmcsb@usmc.mil Cougar_deliverables@usmc.mil smblogcommrap@usmc.mil terra.jowers@usmc.mil				Draft	Reg	Repro		
				Email Addresses	1	1	0	
				15. TOTAL		1	1	0
G. PREPARED BY: Ann Jowers		H. DATE 11 December 2014	I. APPROVED BY: <i>Ann Jowers</i>		J. DATE 14 Jan 2015			

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DD FORM 1423-1, AUG 96 (EG)

PREVIOUS EDITION MAY BE USED



DATA ITEM DESCRIPTION				Form Approved DMS No 0704-018E																																				
1 TITLE REPORT OF RECEIPTS, INVENTORY, ADJUSTMENTS, AND SHIPMENTS OF GOVERNMENT PROPERTY			2 IDENTIFICATION NUMBER DI-HGHT-80442																																					
3 DESCRIPTION PURPOSE 3.1 This report provides data regarding receipt, balance on-hand, adjustment and shipment of Government property. (Accountability for assets is retained by the Government.) 3.2 This report provides documents required to (a) support adjustment of property and financial inventory accountings records, and (b) provide information as a basis for claims.																																								
4 APPROVAL DATE (YYMMDD) 870917		5 OFFICE OF PRIMARY RESPONSIBILITY (OPR): A/AMSKC-NND		6a DDC APP. CODE	6b GDFP APP. CODE																																			
7 APPLICATION/INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement for this data included in the contract. 7.2 This DID is applicable when contractors are responsible for maintaining custodial records for Government property being repaired.																																								
8 APPROVAL LIMITATION			9a APPLICABLE FORMS		9b AMSC NUMBER A4218																																			
10 PREPARATION INSTRUCTIONS 10.1 <u>Format.</u> The report shall be in the following format:  <table border="1"> <thead> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> <tr> <th>NSN RECD</th> <th>RELATED NSN</th> <th>DOCUMENT NUMBER</th> <th>SERIAL NUMBER</th> <th>QTY RECEIVED</th> <th>DATE RECEIVED</th> <th>BALANCE ON-HAND</th> </tr> <tr> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> <th>14</th> </tr> <tr> <th>CONDITION CODE</th> <th>NSN SHIPPED</th> <th>QTY SHIPPED</th> <th>DATE SHIPPED</th> <th>SHIPMENT NUMBER</th> <th>ADJUSTMENT QTY (+/-)</th> <th>EXPLANATION GAIN/LOSS</th> </tr> </thead> <tbody> <tr> <td colspan="7">15 REMARKS</td> </tr> </tbody> </table> 10.2 <u>Content.</u> All Government repairables on-hand as of close of business of the period specified in the DD Form 1423 and all assets received and shipped during the period shall be included in the report. The content of the report shall be as follows: 10.2.1 <u>Change in National Stock Number (NSN).</u> If asset is received under one NSN and modified to another configuration, the new NSN shall be reported in Column 9. 10.2.2 <u>Component disassembly or reassembly.</u> (Continued on Page 2)						1	2	3	4	5	6	7	NSN RECD	RELATED NSN	DOCUMENT NUMBER	SERIAL NUMBER	QTY RECEIVED	DATE RECEIVED	BALANCE ON-HAND	8	9	10	11	12	13	14	CONDITION CODE	NSN SHIPPED	QTY SHIPPED	DATE SHIPPED	SHIPMENT NUMBER	ADJUSTMENT QTY (+/-)	EXPLANATION GAIN/LOSS	15 REMARKS						
1	2	3	4	5	6	7																																		
NSN RECD	RELATED NSN	DOCUMENT NUMBER	SERIAL NUMBER	QTY RECEIVED	DATE RECEIVED	BALANCE ON-HAND																																		
8	9	10	11	12	13	14																																		
CONDITION CODE	NSN SHIPPED	QTY SHIPPED	DATE SHIPPED	SHIPMENT NUMBER	ADJUSTMENT QTY (+/-)	EXPLANATION GAIN/LOSS																																		
15 REMARKS																																								
11 DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.																																								

DD Form 1464, MAR 87

Jun 86 edition may be used until exhausted

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## Block 10, Preparation Instructions (Continued)

10.2.2.1 If a stock-numbered component is removed from the item being repaired and not reassembled to the repairable, only the following columns of data shall be reported:

- a. Col 1 - NSN of the component removed.
- b. Col 2 - NSN of the asset from which the component was removed.
- c. Col 3 - Document number of the repairable from which the component was removed.
- d. Col 4 - Serial number of the repairable from which the component was removed, if applicable.
- e. Col 5 - Quantity removed.
- f. Col 15 - Receipt from component disassembly.

10.2.2.2 When a stock-numbered component removed from one repairable is being reassembled to another repairable, the following shall be reported. It may be combined with the entry for removal of the component.

- a. Col 1 - NSN of the component utilized.
- b. Col 9 - NSN of the repairable asset upon which the component was utilized.
- c. Col 10 - Quantity of the component utilized.
- d. Col 11 - Date utilized.
- e. Col 12 - Document number of the repairable upon which the component was utilized.
- f. Col 15 - Issue to component assembly.

10.2.3 Inventory. Should contractor custodial records require an adjustment following a physical inventory, the quantity adjusted (+ or -) shall be reported in col 13 of the report for that period.

10.2.3.1 Should col 13 be utilized to report an adjustment quantity, the circumstances of the loss or gain shall be explained in col 14.

10.2.4 Report dates. Ordinal dates shall be used for report dates. The Ordinal date is comprised of the last two digits of the calendar year and the Julian day of the year.  
Example: 30 Jan '87 shall be written as 870730.