

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**1. Contract ID Code  
Firm Fixed Price

Page 1 Of 87

2. Amendment/Modification No.

0001

3. Effective Date

2014MAY02

4. Requisition/Purchase Req No.

SEE SCHEDULE

5. Project No. (If applicable)

6. Issued By

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

Code

W56HZV

7. Administered By (If other than Item 6)

Code

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

9A. Amendment Of Solicitation No.

W56HZV-13-R-0411

9B. Dated (See Item 11)

2013DEC09

10A. Modification Of Contract/Order No.

10B. Dated (See Item 13)

Code

Facility Code

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS** The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended,  is not extended. 2014JUN02 05:00pm

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:  
(a) By completing items 8 and 15, and returning 2 signed copies of the amendments; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting And Appropriation Data (If required)

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

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

A. This Change Order is Issued Pursuant To:  
The Contract/Order No. In Item 10A.

The Changes Set Forth In Item 14 Are Made In

B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).

C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:

D. Other (Specify type of modification and authority)

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

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

SEE SECOND PAGE FOR DESCRIPTION

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

15A. Name And Title Of Signer (Type or print)

16A. Name And Title Of Contracting Officer (Type or print)

15B. Contractor/Officer

15C. Date Signed

16B. United States Of America

16C. Date Signed

(Signature of person authorized to sign)

By \_\_\_\_\_ /SIGNED/  
(Signature of Contracting Officer)

NSN 7540-01-152-8070

30-105-02

STANDARD FORM 30 (REV. 10-83)

PREVIOUS EDITIONS UNUSABLE

Prescribed by GSA FAR (48 CFR) 53.243

**CONTINUATION SHEET****Reference No. of Document Being Continued****Page 2 of 87**

PIIN/SIIN W56HZV-13-R-0411

MOD/AMD 0001

**Name of Offeror or Contractor:**

## SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: LEON MORROW  
Buyer Office Symbol/Telephone Number: CCTA-HTM-M/(586)282-8434  
Type of Contract: Firm Fixed Price  
Kind of Contract: System Acquisition Contracts

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

The purpose of Amendment 0001 to Solicitation W56HZV-13-R-0411 is to address the following:

## 1. Section B SUPPLIES OR SERVICES AND PRICES/COSTS

a. Update CLINS 0001AA-0032AA to reflect the revised Performance Work Statement (PWS) references and revised Contract Data Requirements List (CDRL) references.

b. Delete the following CLINS:

- CLIN 0006AA (COLD WEATHER KIT MANUAL (TM X-XXXX-XXX-13&P))
- CLIN 0008AA (ROBOT DEPLOYMENT SYSTEM (RDS) MANUAL (TM X-XXX-XXX-13&P))
- CLIN 0009AA (WARRANTY TB (TB 9-2355-435-13))
- CLIN 0010AA (MMPV TYPE II NMWR WITH RPSTL (NMWR X-XXX-XXX))
- CLIN 0012AA (FIELD SERVICE REPRESENTATIVE (FSR) SUPPORT)

c. Add the following CLINS:

- CLIN 0011AB (NMWR X-XXXX-XXX, COMPONENT NMWR WITH RPSTL FOR TRANSMISSION)
- CLIN 0011AC (NMWR X-XXXX-XXX, COMPONENT NMWR WITH RPSTL FOR T-CASE)
- CLIN 0011AD (M1270 COMPONENT NMWRs W/RPSTL CANDIDATE LIST)
- CLIN 0016AB (START OF WORK MEETING)
- CLIN 0016AC (MANAGEMENT OF GOVERNMENT PROPERTY (GFE/GFI))
- CLIN 0016AD (QUARTERLY IPRs)
- CLIN 0016AE (MONTHLY MPPs and TRCs)
- CLIN 0019AB (CLEAN/GREEN)
- CLIN 0019AC (M1270 (FH01) TDP DEVELOPMENT)
- CLIN 0023AB (ENGINEERING SUPPORT)
- CLIN 0033AA (COPYRIGHT RELEASE)
- CLIN 0034AA (TM X-XXXX-XXX-23&P, FIELD MAINTENANCE AND RPSTL MANUAL, OBJECTIVE GUNNER PROTECTION KIT (OGPK))
- CLIN 0035AA (TM X-XXXX-XXX-10, OPERATOR MANUAL, OBJECTIVE GUNNER PROTECTION KIT (OGPK))
- CLIN 0036AA (SUPPORT TO LD CMR AT GDLS-C)
- CLIN 0036AB (SUPPORT TO LD FMR AT GDLS-C)
- CLIN 0036AC (SUPPORT TO OT AT YPG)
- CLIN 0036AD (SUPPORT TO CMR VERIFICATION AT GDLS-C)
- CLIN 0036AE (SUPPORT TO FMR VERIFICATION AT GDLS-C)
- CLIN 0036AF (SUPPORT TO NMWR VERIFICATION (ENGINE, TRANSMISSION, AND TRANSFER CASE) AT RRAD)
- CLIN 0036AG (SUPPORT TO PVT)

## 2. Section C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

a. Incorporate the revised Performance Work Statement (PWS) agreed upon by both GDLS-C and the USG.

## 3. Section J - LIST OF ATTACHMENTS

a. Incorporate the revised Contract Data Requirements List (CDRL) and attachments agreed upon by both GDLS-C and the USG.

4. Due to the urgency of this acquisition, please submit your proposal no later than 5:00pm eastern time, 02 June 2014.

\*\*\* END OF NARRATIVE A0002 \*\*\*

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS				
0001	TECHNICAL MANUAL				
0001AA	<p>TM 9-2355-435-10, OPERATOR MANUAL, M1270                      INCLUDING RDS</p> <p>SERVICE REQUESTED: TECHNICAL MANUAL                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      TM 9-2355-435-10, OPERATOR MANUAL, M1270 INCLUDING                      ROBOTIC DEPLOYMENT SYSTEM (RDS)                      SHALL BE IAW PWS SECTION C.11.3 AND CDRL A051.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ _____

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	TECHNICAL MANUAL				
0002AA	<p>TM 9-2355-435-10-HR, HAND RECEIPT</p> <p>SERVICE REQUESTED: TECHNICAL MANUAL                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      TM 9-2355-435-10-HR, HAND RECEIPT SHALL BE IAW PWS                      SECTION C.11.3 AND CDRL A055.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003AA	<p><u>TM 9-2355-435-23, FIELD MAINTENANCE MANUAL INCLUDING RDS</u></p> <p>SERVICE REQUESTED: TECHNICAL MANUAL                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      TM 9-2355-435-23, FIELD MAINTENANCE MANUAL INCLUDING RDS, M1270                      SHALL BE IAW PWS SECTION C.11.3 AND CDRL A057.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				<p>\$ _____</p>

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	TECHNICAL MANUAL				
0004AA	<p>TM 9-2355-435-23P, FIELD MAINTENANCE RPSTL MANUAL                      W/RDS</p> <p>SERVICE REQUESTED: TECHNICAL MANUAL                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      TM 9-2355-435-23P, FIELD MAINTENANCE RPSTL MANUAL                      INCLUDING RDS, M1270 SHALL BE IAW PWS SECTION C.11.3                      AND CDRL A058.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				<p>\$ _____</p>

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	TECHNICAL MANUAL				
0005AA	<p>LO-2355-435-13, LUBRICATION INSTRUCTION</p> <p>SERVICE REQUESTED: TECHNICAL MANUAL                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      LO-2355-435-13, LUBRICATION INSTRUCTION                      SHALL BE IAW PWS SECTION C.11.3 AND CDRL A054.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007	TECHNICAL MANUAL				
0007AA	<p>TM X-XXXX-XXX-13&amp;P, OP, FM &amp; RPSTL MANUAL,                      CHEVRON ARMOR KIT</p> <p>SERVICE REQUESTED: TECHNICAL MANUAL                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      TM X-XXXX-XXX-13&amp;P, OPERATOR, FIELD MAINTENANCE AND                      RPSTL MANUAL, CHEVRON ARMOR SOLUTION KIT                      SHALL BE IAW PWS SECTION C.11.3 AND CDRL A053.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011	NMWR				
0011AA	<p><u>NMWR X-XXXX-XXX, COMPONENT NMWR WITH RPSTL FOR ENGINE</u></p> <p>SERVICE REQUESTED: NMWR                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      NMWR X-XXXX-XXX, M1270 COMPONENT NMWR WITH RPSTL FOR ENGINE                      SHALL BE IAW PWS SECTION C.12.3.5 AND CDRL A062A.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				<p>\$ _____</p>

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011AB	<p><u>NMWR X-XXXX-XXX, COMPONENT NMWR WITH RPSTL FOR TRANSMISSION</u></p> <p>SERVICE REQUESTED: NMWR CLIN CONTRACT TYPE: Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF NMWR X-XXXX-XXX, COMPONENT NMWR WITH RPSTL FOR TRANSMISSION SHALL BE IAW PWS SECTION C.12.3.5 AND CDRL A062B.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011AC	<p><u>NMWR X-XXXX-XXX, COMPONENT NMWR WITH RPSTL FOR T-CASE</u></p> <p>SERVICE REQUESTED: NMWR                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      NMWR X-XXXX-XXX, COMPONENT NMWR WITH RPSTL FOR T-CASE                      SHALL BE IAW PWS SECTION C.12.3.5                      AND CDRL A062C.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				<p>\$ _____</p>

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**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011AD	<p>M1270 COMPONENT NMWRS W/RPSTL CANDIDATE LIST</p> <p>SERVICE REQUESTED: NMWR                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      M1270 COMPONENT NMWRS W/RPSTL CANDIDATE LIST                      SHALL BE IAW PWS SECTION C.12.1                      AND CDRL A061.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013	ISP				
0013AA	<p><u>INTERIM SERVICE PACKAGE (ISP)</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: ISP                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND PERFORMANCE OF                      CLIN 0013AA SHALL BE IAW                      PWS SECTION: C.18.2, CDRL A086, AND SECTION F.</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014	ASL				
0014AA	<p><u>AUTHORIZED STOCKAGE LIST (ASL)</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: ASL                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND PERFORMANCE OF                      CLIN 0014AA SHALL BE IAW                      PWS SECTION: C.18.1, CDRL A085, AND SECTION F.</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0015	SSP				
0015AA	<p><u>SYSTEM SUPPORT PACKAGE (SSP)</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: SSP                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND PERFORMANCE OF                      CLIN 0015AA SHALL BE IAW                      PWS SECTION: C.17.1, CDRLS A083A, A083B, A102A,                      A102B, A103A, A103B AND SECTION F.</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0016	MANAGEMENT AND ADMINISTRATION				
0016AA	<p><u>MANAGEMENT AND ADMINISTRATION</u></p> <p>SERVICE REQUESTED: MANAGEMENT AND ADMINISTRATION                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0016AA SHALL BE IAW PWS SECTION C.3.4 AND THE                      FOLLOWING CDRLS:</p> <p>A001 Agendas                      A002 Minutes                      A003 Performance Report                      A004 Internal Organizational List                      A005 Integrated Master Schedule (IMS)</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0016AB	<p><u>START OF WORK MEETING</u></p> <p>SERVICE REQUESTED: START OF WORK MEETING                      CLIN CONTRACT TYPE:                          Firm Fixed Price</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0016AB                      SHALL BE IAW PWS SECTION:                      C.5.1.</p> <p style="text-align: center;">(End of narrative B002)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0016AC	<p><u>MANAGEMENT OF GOVERNMENT PROPERTY (GFE/GFI)</u></p> <p>SERVICE REQUESTED: GFE/GFI                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0016AC                      SHALL BE IAW PWS SECTION:                      C.3.4.1.4.4.</p> <p>(End of narrative B003)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0016AD	<p><u>QUARTERLY IPRS</u></p> <p>SERVICE REQUESTED: IPR'S                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0016AD                      SHALL BE IAW PWS SECTION:                      C.5.4.</p> <p>(End of narrative B004)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0016AE	<p><u>MONTHLY MPPS AND TRCS</u></p> <p>SERVICE REQUESTED: MPPS AND TRCS                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0016AE                      SHALL BE IAW PWS SECTION:                      C.5.5.</p> <p>(End of narrative B005)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0017	MAINTENANCE				
0017AA	<p><u>MAINTENANCE</u></p> <p>SERVICE REQUESTED: MAINTENANCE                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0017AA SHALL BE IAW PWS SECTION C.6.0 AND THE                      FOLLOWING CDRLS:</p> <p>A009 Supportability Analysis                      A010 Maintenance Planning                      A011 Component of End Item (COEI)                      A012 Basic Issue Items (BII)                      A013 Expendable Durable Items List (EDIL)                      A014 Additional Authorized Items List (AAL)                      A016 Mandatory Replacement Parts List (MRPL)                      A017 Maintenance Analysis (MA)                      A018 Level of Repair Analysis (LORA)                      A019 Maintenance Allocation Chart (MAC)                      A106 Failure Mode Effects Criticality Analysis</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0018	STTE				
0018AA	<p><u>SPECIAL TOOLS AND TEST EQUIPMENT (STTE)</u></p> <p>SERVICE REQUESTED: STTE                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0018AA SHALL BE IAW PWS SECTION C.7.0 AND THE                      FOLLOWING CDRLS:</p> <p>A020 Special Tools and Test Equipment (STTE) List                      A021 Diagnostic Testability Analysis                      A101 Calibration Instructions</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0019	PROVISIONING				
0019AA	<p><u>PROVISIONING</u></p> <p>SERVICE REQUESTED: PROVISIONING                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0019AA SHALL BE IAW PWS SECTION C.9.0 AND THE                      FOLLOWING CDRLS:</p> <p>A015 Long Lead Time Items List (LLTI)                      A022 Provisioning Plan                      A023 Provisioning Parts List (PPL)                      A024 Pre-Procurement Screening (PPS)                      A025 Engineering Data for Provisioning (EDFP)                      A026 Foreign Sources of Supply Notice</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0019AB	<p><u>CLEAN/GREEN</u></p> <p>SERVICE REQUESTED: CLEAN/GREEN                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0019AB                      SHALL BE IAW PWS SECTION C.9.1.7 AND THE FOLLOWING                      CDRLS:</p> <p>A027 Certification of "Green/Clean" Parts                      A028 Exception to "Green/Clean" Parts                      A029 "Green/Clean" Parts NSN Split Proposal Report</p> <p>(End of narrative B002)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0019AC	<p><u>M1270 (FH01) TDP DEVELOPMENT</u></p> <p>SERVICE REQUESTED: M1270 (FH01) TDP DEVELOPMENT                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF CLIN 0019AC SHALL BE IAW PWS SECTION C.27.0 AND THE FOLLOWING CDRLS:</p> <p>A093 Engineering Bill of Material (E-BOM)                      A099 Engineering Indentured Bill of Material (E-IBOM)</p> <p>(End of narrative B002)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020	PKG/HAND/STOR/TRANS (PHS&T)				
0020AA	<p><u>PACKAGING/HANDLING/STORAGE/TRANSPORTATION (PHS&amp;T)</u></p> <p>SERVICE REQUESTED: PKG/HAND/STOR/TRANS (PHS&amp;T)                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0020AA SHALL BE IAW PWS SECTION C.10.0 AND THE                      FOLLOWING CDRLS:</p> <p>A030 Logistic Management Information (LMI) Coded Data</p> <p>A031 Special Packaging Instructions (SPI)                      A032 Validation Test Report                      A033 Equipment Preservation Data Sheets (EPDS)                      A034 EPDS validation report</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ _____

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Reference No. of Document Being Continued  
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0021	GENERAL PUBLICATIONS				
0021AA	<p><u>GENERAL PUBLICATIONS</u></p> <p>SERVICE REQUESTED: GENERAL PUBLICATIONS                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0021AA SHALL BE IAW PWS SECTION C.11.0 AND THE                      FOLLOWING CDRLS:</p> <p>A007 Technical Manual Plan</p> <p>A008 Technical Manual Quality Assurance (TMQA)                      Program Plan</p> <p>A063A Validation Plan for Operators Manuals w/RDS (-                      10) and OGPK (-10)</p> <p>A063B Validation Plan for Maintenance and Parts TM's                      w/RDS (-23/-23P) and 23&amp;P for OGPK</p> <p>A063C Validation Plan for Chevron 13&amp;P</p> <p>A063D.1 Validation Plan, Engine NMWR</p> <p>A063D.2 Validation Plan, Transmission NMWR</p> <p>A063D.3 Validation Plan, T-Case NMWR</p> <p>A064A Validation Report, Operator Manuals with RDS (-                      10) and OGPK (-10)</p> <p>A064B Validation Report, Maintenance and Parts                      Manuals with RDS (-23/23P) and OGPK (-23&amp;P)</p> <p>A064C Validation Report, Chevron Bar Armor 13&amp;P</p> <p>A064D.1 Validation Plan, Engine NMWR</p> <p>A064D.2 Validation Plan, Transmission NMWR</p> <p>A064D.3 Validation Plan, T-Case NMWR</p> <p>A065A TM Validation Certificate, Operators Manual                      w/RDS (-10), OGPK (-10)</p> <p>A065B TM Validation Certificate, Maintneance and                      Parts Manuals w/RDS (-23/-23P), OGPK (-23&amp;P)</p> <p>A065C TM Validation Certificate, Chevron Armor 13&amp;P</p> <p>A065D.1 TM Validation Certificate, Engine NMWR</p> <p>A065D.2 TM Validation Certificate, Transmission NMWR</p>				\$ _____

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Reference No. of Document Being Continued  
PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	A065D.3 TM Validation Certificate, T-Case NMWR A066A TM Discrepancy Report, Logistics Demonstration A066B TM Discrepancy Report, Operational Test A066C TM Discrepancy Report, Verification  (End of narrative B001)  <u>Inspection and Acceptance</u> INSPECTION: Destination      ACCEPTANCE: Destination				

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Reference No. of Document Being Continued  
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0022	NEW EQUIPMENT TRAINING (NET)				
0022AA	<p><u>NEW EQUIPMENT TRAINING (NET)</u></p> <p>SERVICE REQUESTED: NEW EQUIPMENT TRAINING (NET)                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0022AA SHALL BE IAW PWS SECTION C.16.0 AND THE                      FOLLOWING CDRLS:</p> <p>A067 Operator Critical Task List</p> <p>A068 Maintainer Critical Task List</p> <p>A069 Operator Net Package/POI/TSP</p> <p>A070 Maintainer Net Package/POI/TSP</p> <p>A071 Operator POI</p> <p>A072 Maintainer POI</p> <p>A073 Operator NET TSP</p> <p>A074 Maintainer NET TSP</p> <p>A075 Instructor Guides/Operator Net</p> <p>A076 Instructor Guides/Maintainer Net</p> <p>A077 Student Guides/Operator Net/ I&amp;KPT/Training                      Certificates</p> <p>A078 Student Guides/Maintainer Net/ I&amp;KPT/Training                      Certificates</p> <p>A079 Operator Net Test Question Key</p> <p>A080 Maintainer Net Test Question Key</p> <p>A081 CMR Student Training Certificates/Course                      Critiques/Rosters (Operator CMR)</p> <p>A082 FMR Student Training Certificates/Course                      Critiques/Rosters (Maintainer FMR)</p> <p>A084E Inspection and Assessment Report, Instructor &amp;                      Key Personnel Training (I&amp;KPT) for the OM M1270                      including RDS (-10), OGPK TM (-10), CHEVRON Bar                      Armor TM (-13&amp;P)</p> <p>A084E.1 Inspection and Assessment Report, Instructor                      &amp; Key Personnel Training (I&amp;KPT) for the Maintainer &amp;                      Parts Manuals (-23/-23P) M1270 including RDS &amp; OGPK</p>				\$ _____

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Reference No. of Document Being Continued  
PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<p>TM (-23&amp;P).</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination      ACCEPTANCE: Destination</p>				

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023	LOGISTICS				
0023AA	<p><u>LOGISTICS</u></p> <p>SERVICE REQUESTED: LOGISTICS                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0023AA SHALL BE IAW THE                      FOLLOWING CDRLS:</p> <p>A006 Logistics Quality Plan                      A105 Fault Insertion Plan</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Reference No. of Document Being Continued  
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023AB	<p><u>ENGINEERING SUPPORT</u></p> <p>SERVICE REQUESTED: ENGINEERING SUPPORT                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES INSTRUCTIONS AND PERFORMANCE OF CLIN 0023AB SHALL BE IAW PWS SECTION: C.20.0 - C.25.0 AND THE FOLLOWING CDRLS:</p> <p>A091 Item Unique Identification (IUID) Candidate List                      A092 Standard for Preparing a Diminishing Mfg &amp; Material Shortages (DMSMS) Mgt Plan                      A094 Transportability Report                      A095 Human Factors Engineering Analysis (HFEA)                      A096 Corrosion Prevention and Control Plan (CPCP)                      A097 Hazardous Materials Management Report (HMMR)                      A098 Safety Assessment Report</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ _____

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024	FIELD MAINTENANCE TOOL KIT FSCM: 19207 PART NR: XXX-XXXX				
0024AA	<p><u>FAT FIELD MAINTENANCE TOOL KIT (FMTK)</u></p> <p>COMMODITY NAME: FIELD MAINTENANCE TOOL KIT                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>FMTK SHALL BE IAW PWS SECTION 19.0.</p> <p>SEE CLAUSE 52.209-4 AND SECTION F FOR FAT SAMPLE DELIVERY INSTRUCTIONS.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u>                      PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING CLAUSE 52.211-4517                      LEVEL PRESERVATION: Military                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination                      Government Approval/Disapproval Days: 90</p>			\$ _____	\$ _____

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Reference No. of Document Being Continued  
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0025	TDP FMTK				
0025AA	<p><u>TECHNICAL DATA PACKAGE (TPD) FMTK</u></p> <p>SERVICE REQUESTED: TDP FMTK                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0025AA SHALL BE IAW PWS SECTION C.19.9 THE                      FOLLOWING CDRLS:</p> <p>A087 Tool Layout Plan                      A088 Individual Tool Images                      A089 Set Images                      A090 Copyright Release                      A0100 Technical Data Package (TDP)                      A104 Receipt &amp; Accountability</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ _____

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Reference No. of Document Being Continued  
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0026	LLRC ENGINE FSCM: 19207 PART NR: XXX-XXXX				
0026AA	<p><u>FAT - LLRC (ENGINE)</u></p> <p>COMMODITY NAME: LLRC ENGINE                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0026AA SHALL BE IAW                      THE FOLLOWING CDRLS:</p> <p>A035 Concept Drawing - Engine LLRC                      A038 Prototype Container and Test Plan Engine LLRC                      A041 Engine LLRC Fit-Up                      A044 LLRC Testing - Engine</p> <p>SEE CLAUSE 52.209-3 AND SECTION F FOR FAT REPORT                      DELIVERY INSTRUCTIONS.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin                      Government Approval/Disapproval Days: 90</p>			\$ _____	\$ _____

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0027	LLRC (TRANSMISSION) FSCM: 19207 PART NR: XXX-XXXX				
0027AA	<p><u>FAT - LLRC (TRANSMISSION)</u></p> <p>COMMODITY NAME: LLRC (TRANSMISSION)                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0027AA SHALL BE IAW                      THE FOLLOWING CDRLS:</p> <p>A036 Concept Drawing - Transmission LLRC                      A039 Prototype Container and Test Plan Transmission                      LLRC                      A042 Transmission LLRC Fit-Up                      A045 LLRC Testing - Transmission</p> <p>SEE CLAUSE 52.209-3 AND SECTION F FOR FAT REPORT                      DELIVERY INSTRUCTIONS.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin                      Government Approval/Disapproval Days: 90</p>			\$ _____	\$ _____

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0028	FAT - LLRC (T-CASE) FSCM: 19207 PART NR: XXX-XXXX				
0028AA	<p>FAT - LLRC (T-CASE)</p> <p>COMMODITY NAME: FAT - LLRC (T-CASE)                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0028AA SHALL BE IAW                      THE FOLLOWING CDRLS:</p> <p>A037 Concept Drawing - T-Case LLRC                      A040 Prototype Container and Test Plan T-Case LLRC                      A043 T-Case LLRC Fit-Up                      A046 LLRC Testing - T-Case</p> <p>SEE CLAUSE 52.209-3 AND SECTION F FOR FAT REPORT                      DELIVERY INSTRUCTIONS.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin                      Government Approval/Disapproval Days: 90</p>			\$ _____	\$ _____

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**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0029	TDP - LLRC (ENGINE)				
0029AA	<p><u>TDP - LLRC (ENGINE)</u></p> <p>SERVICE REQUESTED: TDP - LLRC (ENGINE)            CLIN CONTRACT TYPE:                Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF            CLIN 0029AA SHALL BE IAW            PWS SECTION: C.10.11 AND CDRL A047 Packaging Engine            LLRC TDP</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>            INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Reference No. of Document Being Continued  
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0030	TDP - LLRC (TRANSMISSION)				
0030AA	<p><u>TDP - LLRC (TRANSMISSION)</u></p> <p>SERVICE REQUESTED: TDP - LLRC (TRANSMISSION)                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0030AA SHALL BE IAW                      PWS SECTION: C.10.11 AND CDRL A048 Packaging                      Transmission LLRC TDP</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ _____

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0031	TDP - LLRC (T-CASE)				
0031AA	<p>TDP - LLRC (T-CASE)</p> <p>SERVICE REQUESTED: TDP - LLRC (T-CASE)                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF                      CLIN 0029AA SHALL BE IAW                      PWS SECTION: C.10.11 AND CDRL A049 Packaging T-Case                      LLRC TDP</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ _____

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**Reference No. of Document Being Continued**  
**PIIN/SIIN** W56HZV-13-R-0411 **MOD/AMD** 0001

**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0032	CMR				
0032AA	<p><u>CONTRACTOR MANPOWER REPORTING</u></p> <p>SERVICE REQUESTED: CMR                      CLIN CONTRACT TYPE:                      No Cost</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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**Reference No. of Document Being Continued**  
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**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0033	COPYRIGHT RELEASE				
0033AA	<p><u>COPYRIGHT RELEASE</u></p> <p>SERVICE REQUESTED: COPYRIGHT RELEASE                      CLIN CONTRACT TYPE:                      No Cost</p> <p>DELIVERIES INSTRUCTIONS AND PERFORMANCE OF CLIN                      0033AA SHALL BE IAW PWS SECTION C.11.1.12 AND CDRL                      A050.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0034	TM X-XXXX-XXX-23&P				
0034AA	<p>TM X-XXXX-XXX-23&amp;P, FIELD MAINT &amp; RPSTL MANUAL, OGPK</p> <p>SERVICE REQUESTED: TM X-XXXX-XXX-23&amp;P                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>DELIVERIES INSTRUCTIONS AND PERFORMANCE OF TM X-XXXX-XXX-23&amp;P, FIELD MAINT &amp; RPSTL MANUAL, OGPK SHALL BE IAW PWS SECTION C.11.3 AND CDRL A059.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ _____

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**Reference No. of Document Being Continued**  
**PIIN/SIIN** W56HZV-13-R-0411      **MOD/AMD** 0001

**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0035	TM X-XXXX-XXX-10				
0035AA	<p>TM X-XXXX-XXX-10, OPERATOR MANUAL, OGPK</p> <p>SERVICE REQUESTED: TM X-XXXX-XXX-10                      CLIN CONTRACT TYPE:                          Firm Fixed Price</p> <p>DELIVERIES AND PERFORMANCE OF TM X-XXXX-XXX-10,                      OPERATOR MANUAL, OGPK SHALL BE IAW PWS SECTION C.11.3                      AND CDRL A052.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0036	EVENT SUPPORT				
0036AA	<p><u>SUPPORT TO LD CMR AT GDLS-C</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: EVENT SUPPORT                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0036AA                      SHALL BE IAW PWS SECTION:                      C.5.9. AND</p> <p>CDRL A084C Inspection and Assessment Report, Log Demo                      for the OM M1270 including RDS (-10), OGPk TM (-10),                      CHEVRON Armor TM (-13&amp;P)</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				

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Reference No. of Document Being Continued  
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0036AB	<p><u>SUPPORT TO LD FMR AT GDLS-C</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: EVENT SUPPORT                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0036AB                      SHALL BE IAW PWS SECTION:                      C.5.9. AND</p> <p>CDRL A084C.1 Inspection and Assessment Report, Log                      Demo for the Maintainer &amp; Parts Manuals (-23/-23P)                      M1270 including RDS &amp; OGPK TM (-23&amp;P).</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				

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 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0036AC	<p><u>SUPPORT TO OT AT YPG</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: EVENT SUPPORT                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0036AC                      SHALL BE IAW PWS SECTION:                      C.5.10. AND</p> <p>CDRL A084B Inspection and Assessment Report,                      Operational Test</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0036AD	<p><u>SUPPORT TO CMR VERIFICATION AT GDLS-C</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: EVENT SUPPORT                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0036AD                      SHALL BE IAW PWS SECTION:                      C.5.12.2. AND</p> <p>CDRL A084D Inspection and Assessment Report,                      Verification for the OM M1270 Including RDS (-10),                      OGPk TM (-10), CHEVRON Armor TM (-13&amp;P).</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0036AE	<p><u>SUPPORT TO FMR VERIFICATION AT GDLS-C</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: EVENT SUPPORT                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0036AE                      SHALL BE IAW PWS SECTION:                      C.5.12.3. AND</p> <p>CDRL A084D.1 Inspection and Assessment Report,                      Verification for the Maintainer &amp; Parts Manuals (-23/-                      23P) M1270 INCLUDING RDS &amp; OGPK TM (-23&amp;P).</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0036AF	<p><u>SUPPORT NMWR VERIFICATION (ENGINE, TRANS &amp; T-CASE) AT RRAD</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: EVENT SUPPORT                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0036AF                      SHALL BE IAW PWS SECTION:                      C.5.12.4.</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-13-R-0411 MOD/AMD 0001

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0036AG	<p><u>SUPPORT TO PVT</u></p> <p>Estimated                      Cost \$ _____                      Fixed Fee \$ _____                      Not to Exceed                      (Funding) \$ _____</p> <p>SERVICE REQUESTED: EVENT SUPPORT                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>DELIVERIES INSTRUCTIONS AND                      PERFORMANCE OF CLIN 0036AG                      SHALL BE IAW PWS SECTION:                      C.5.8.</p> <p>ESTIMATED COST: _____                      FIXED FEE: _____                      TOTAL ESTIMATED                      COST + FIXED FEE: _____</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				

**Name of Offeror or Contractor:**

## SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

## 1.0 SCOPE

1.1 PURPOSE: The Contractor shall develop all Logistics requirements to support requirements for the M1270, NSN: 2355-01-616-9288, to support Full Material Release (FMR). The Contractor shall incorporate USG ECPs into the POR Bill of Materials to support all logistics requirements for the M1270. The Contractor shall develop a System Support Package (SSP) to support a Logistics Demonstration (LD) and Test and Evaluation (T&E). The Contractor shall develop Technical Manuals (TM), support LD, conduct provisioning, develop packaging information, create New Equipment Training (NET) support packages, address Safety requirements, and develop all Logistics Management (LMI) data products, and perform Configuration Management for the M1270. In addition, the Contractor shall provide Functional Technical Support, maintenance and parts support, as identified. The Contractor shall consider utilizing existing data; however it is solely the Contractors responsibility to ensure the existing data is accurate, usable, and complies with the M1270 configuration. The Contractor is responsible to validate all data utilized.

1.2 BACKGROUND: The M1270 is an Acquisition Category II (ACAT II) program designated to fulfill Engineer Route Clearance Companies (RCCs) Modified Table of Organization and Equipment (MTOEs) as a critical Pacing item. The M1270 is being developed to meet requirements identified under CPD 3.8 Revision 2, dated 8 Dec 2013.

It has been mandated by the Department of the Army to achieve Conditional Materiel Release (CMR) for the M1270 program, CMR will be achieved with successful development and demonstration of the following Technical Manuals:

TM 9-2355-435-10, Operator Manual, M1270 including Robotic Deployment System (RDS), CDRL A051

TM X-XXXX-XXX-10, Operator Manual, Objective Gunner Protection Kit (OGPK), CDRL A052

TM X-XXXX-XXX-13&P, Operator, Field Maintenance and RPSTL Manual, Chevron Armor Solution Kit, CDRL A053

LO 9-2355-435-13, Lubrication Instruction, CDRL A054

TM 9-2355-435-10-HR, Hand Receipt, CDRL A055

As a follow on approach to meet FMR with organic support, FMR will be achieved with successful development and demonstration of the following Technical Manuals:

TM 9-2355-435-23, Field Maintenance Manual including RDS, M1270, CDRL A057

TM 9-2355-435-23P, Field Maintenance RPSTL Manual including RDS, M1270, CDRL A058

TM X-XXXX-XXX-23&P, Field Maintenance and RPSTL Manual, Objective Gunner Protection Kit (OGPK), CDRL A059

NMWR X-XXX-XXX, M1270 Component NMWRS with RPSTL Manual, CDRLs A062A (Engine), A062B (Transmission) and A062C (T-Case)

## 2 APPLICABLE DOCUMENTS

2.1 DOCUMENT AVAILABILITY: The following specifications and standards form a part of this document to the extent specified. Unless otherwise specified, the versions of these documents shall be those in the Department of the Defense Index of Specifications and Standards (DODISS) and supplements in effect the day of contract award. Copies of these documents are available online at <http://assist.daps.dla.mil/quicksearch/>, <http://www.usapa.army.mil/>, or <http://www.tradoc.army.mil/tpubs/regndx.htm>.

## 2.2 DEPARTMENT OF DEFENSE SPECIFICATIONS

## 2.2.1 DEPARTMENT OF DEFENSE SPECIFICATIONS

Document Number	Document Title
DI-ADMN-81505	Report, Record of Minutes
DI-MGMT-80277	Contractors Progress, Status and Management Report
DI-MGMT-81834A	Contractors Personnel Roster
DI-MGMT-81861	Integrated Program Management Report
DI-QCIC-81379	Quality System Plan
DI-TMSS-81813	Technical Manual Book Plan
DI-TMSS-81817	Technical Manual Quality Assurance Program Plan
DI-SESS-81759	Logistics Product Data Summaries
DI-SESS-80980A	RCM Failure Modes and Effect Analysis (FMEA) Report
DI-SESS-81872	Level of Repair Analysis (LORA) Report
DI-SESS-81758	Logistics Product Data
DI-ILSS-80134A	Proposed Spare Parts List

**Name of Offeror or Contractor:**

DI-ILSS-80868	Special Equipment Tools and Test Equipment List
DI-MISC-80508B	Technical Reports Study / Services
DI-MISC-80177B	Bar Code Identification Report Summaries
DI-SESS-81874	Engineering Data for Provisioning
D-MISC-80678	Certification/Data Report
DI-MISC-80508B	Technical Report Study/Services
DI-CMAN-80640C	Request for Deviation (RFD)
DI-PACK-80121C	Special Packaging Instructions (SPI)
DI-PACK-80457	Packaging Test Report
DI-PACK-81581	Equipment Preservation Data Sheet (EPDS)
DI-CMAN-80792A	Contractor Validation Report
DI-PACK-80120C	Preservation and Packing Data
DI-PACK-80456	Packaging Test Plan
DI-PACK-80457	Packaging Test Report
DI-SESS-81000E	Product Drawings/Models and Associated Lists
DI-MISC-80678	Certification/Data Report
DI-SESS-81315B	Failure Analysis and Corrective Action Report (FACR)
DI-TMSS-81818	Contractor Validation Plan
DI-TMSS-81819A	Contractor Validation Certificate
DI-TMSS-81820	TM Discrepancy/Disposition Record
DI-RELI-80685	Critical Items List
DI-SESS-81521B	Training Program Structure Document
DI-ILSS-80872	Training Materials
DI-ILSS-80386	Repairable Item Inspection Report
DI-MISC-80711A	Scientific and Technical Reports
DI-MISC-81397B	Hazardous Materials Management Program (HMMP) Report Using NAS 411
DI-SESS-81656	Source Data for Forecasting Diminishing Manufacturing Sources and Material Shortages
DI-SAFT-80102B	Safety Assessment Report
DI-SESS-81885	As Built Configuration List
DI-MFFP-81403	Corrosion Prevention and Control Plan
DI-MISC-81397B	Hazardous Materials Management Program (HMMP) Report Using NAS 411
DI-SESS-80776A	Technical Data Package (TDP)
DI-ALSS-80868	Special Tools Test Equipment (STTE)
DI-CMAN-80639C	Engineering Change Proposal (ECP)
DI-QCIC-81068	End Item Final Inspection Record (FIR)
DI-MGMT-81255	Production Progress Report
DI-MISC-80759A	Validation Plan
DI-PACK-80880D	Transportability Report

## 2.3 DEPARTMENT OF DEFENSE STANDARDS

Document Number	Document Title
MIL-STD-31000A	Technical Data Packages (TDP)
GEIA-STD-0007	Logistics Products Data
MIL-STD-882E	System Safety
MIL-STD 129P(4)	Military Marking for Shipment and Storage
MIL-STD-130N(1)	Identification Marking of U.S. Military Property
MIL-STD-2073-1E(1)	Standard Practice for Military Packaging
MIL-STD-38784A	Manuals, Technical: General Style and Format
MIL-STD-40051-2B	Preparation of Digital Technical Information for Page-based Technical Manual
MIL-STD-1472G	Human Engineering

## 2.4 OTHER GOVERNMENT PUBLICATIONS

Document Number	Document Title
AR 700-15	Packaging of Materiel
AR 700-18	Provisioning of US Army Equipment
AR 750-1	Army Materiel Maintenance Policy

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AR 750-143	Packaging of Hazardous Materiel
DA PAM 700-21	TMDE Register Index
DA PAM 700-60	Department of the Army SKO
AFMAN 24-404	Packaging of Hazardous Materiel
AMC-P-700-25	Guide to Provisioning
ASTM D4169	Standard Practice for Performing Testing of Shipping Containers
MIL-HDBK 2361-C	Army Digital Publications Development Implementation Guide
MIL-HDBK-1222E	Guide to the General Style and Format of U.S. Army Work Package Technical Manuals
MIL-HDBK-502A	Acquisition Logistics
MIL-PRF-63004D	Lubrication Orders (Appendix K)
MIL-PRF-29612B	Training Data Products
MIL-STD-3034	Reliability-Centered Maintenance (RCM) Process
CFR 29,40,49	Code for Federal Regulations
NAS 411	HAZMAT and General Packaging
TB 750-93-1	Functional Group Codes (FGC) Technical Bulletin
TRADOC Reg 350-70	Total Army Training System
ISO 9001:2008	International Standards Organization (ISO)
DFARS 252.211-7003	Defense Federal Acquisition Regulations System
MTMCTEA Pam 70-1	Military Traffic Management Command, Transport Engineering Agency, Pamphlet 70-1, Transportability for Better Deployability
TechAmerica-STD-0016	Standard for Preparing a Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management Plan
SAE-ARP-1967A	Containers, Shipping and Storage, Reusable
MIL-DTL-53072E	Chemical Agent Resistant Coating (CARC) System Application Procedures and Quality Control Inspection
CPC SPIRAL 3	Corrosion Prevention and Control Planning Guidebook - Spiral 3
AR 700-127	Integrated Logistics Support
SAE ARP 1967A	Containers, Shipping and Storage, Reusable GPO Style Guide-Approved Abbreviations

**3.0 REQUIREMENTS**

3.1 Contract Objective: The Contractor shall develop logistics data; provide parts support, and technical representatives as described within this Statement of Work (SOW). The Contractor shall correct all information to support the M1270 configuration that is released at FMR. The Government requires complete ILS development, provisioning, technical publications, and STTE required under this effort. The development of the logistics data shall be completed in two phases. Phase 1 will include the logistics data required to support a Conditional Materiel Release (CMR) and defined by paragraph C.3.1.1. Phase 2 will include the final logistics data to meet Full Materiel Release.

3.1.1 Conditional Materiel Release (CMR). The Logistics data developed to support CMR will be based on the configuration released at Contract Award. Any ECP resulting from PVT will be assessed for impact on the CMR deliverables. CMR is defined as:

- Operators Manual (-10), M1270 including Robotic Deployment System (RDS)
- Operators Manual (-10) for OGPk
- 13&P for Chevron Armor Solution Kit

3.1.2 Full Materiel Release (FMR). The logistics data developed to support FMR will be based on POR configuration. FMR is defined as:

- Completion of Component National Maintenance Work Requirements (NMWRs)
- Availability of Long Life Reusable Containers (LLRCs)
- Completion of Contractor Logistics Support (CLS)
- Completion of Field Level Maintenance New Equipment Training (FLMNET)

3.2 Government Furnished: The Government will furnish limited information and equipment to support the creation of logistics documents as identified in paragraphs below. Any items purchased by the Contractor utilizing Government funds in support of this effort except for those purchased under Firm Fixed CLINs and not contractually identified as a deliverable or an end item, will be turned over to the Government at the conclusion of this effort. All Government Furnished Information (GFI) and Government Furnished Equipment (GFE) will be furnished within four (4) weeks of contract award. If the Government does not identify the equipment as being furnished, the

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Contractor shall anticipate it is the Contractors responsibility to purchase or obtain any tools or equipment necessary to support this contract action.

**3.2.1 Government Furnished Information (GFI):**

The following list provides the Governments anticipated availability of GFI data, in days, following Award of Contract (AoC):

00 Days Government owned Technical Manuals for Forward Repair System (FRS), Standard Army Tool Set (SATS), Air Conditioner/Refrigeration Tool Kit.

90 Days Government Owned Corrosion Prevention Control Plan Data (pertaining to all GFI delivered).

120 Days after the end of PVT Government Owned Test Results (HFEA, Transportability Report, SAR), from Production Verification Testing (PVT)

HFEA: Ingress/Egress, Heating/Cooling, Driver and Co-Driver Ground Intercept Plots

Transportability Report: Center of Gravity, Individual Wheel Loads, and Vehicle GVW

SAR: Noise Level, Toxic Fumes and Fire Suppression Data

00 Days Government Owned TDP for ISO Switch Protector, VOSS Pads, 360 degree light kit, Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown.

00 Days Government owned Interrogation Arms A-KIT, Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown.

00 Days Letterkenny M1270 PoR Pilot Build Installation Instructions (required for harness routings, tube and hose routings, modified part drawing development)

00 Days Supply Catalog on DVD for GMTK, Air Conditioning and Refrigeration Tool Box, FRS, SATS and HSTRU

00 Days Listing of TACOM 19207 Part Numbers to support LLRC Development

00 Days - Government owned Technical Data Package (TDP) for the Hull Upgrade Kit, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Rear universal attachment (VOSS) weldment Kit, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Appliqu'e9 Armor, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for window blanks, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Fuel Tank, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Vehicle Accessibility Upgrade, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Vehicle Accessibility Upgrade, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for ISO Switch Protector, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Auxiliary Power System, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Interior Ammunition Storage, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Auxiliary Battery System, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Weapons Storage Assembly, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for LED Signal Lights and harness upgrade, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

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00 Days - Government owned TDP for Enhanced HVAC system, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Exterior Bins Assembly, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Exterior C4I & Integration Brackets (includes Chevron to vehicle interface brackets), Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days - Government owned TDP for Interior C4I & Integration Brackets, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Chevron Armor Kit, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

60 Days Government owned Installation Instructions for Chevron Armor Kit.

00 Days Government owned TDP for Robot Deployment System (RDS), Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned installation instructions for Robot Deployment System (RDS)

00 Days Government owned TDP for Integrated Slew Ring, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Improved ITDS, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP and CAD models (PRO-E or .STP files) with Full Component Breakdown for Battery Box Mod kits, Step File, Level 3 Government PDF Drawings

00 Days Government owned TDP for Neptune kits, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for MRAP Safety Placards, Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Objective Gunner Protection kit (OGPK), Step File, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Turret Stop Block, 5 drawings, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Aluminum Appliqu'e9, 20 drawings, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Digi Rack, 40 drawings, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Door Controls, 30 drawings, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Exterior Bins Installation, 200 drawings, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Interior and Exterior GFE plus Brackets, 105 drawings, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Government owned TDP for Original Anniston Army Depot Metal Works Kit, Level 3 Government PDF Drawings and CAD models (PRO-E or .STP files) with Full Component Breakdown

00 Days Final and Released AMS Route Clearance Style Guide for Technical Publication Development

00 Days Commercial Off The Shelf TDP for 360 Light Kit, Step File

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00 Days Government Owned TDP for Roller Bracket and Step File

00 Days All applicable Government manuals and other related information associated with the operation, maintenance and training of the Vehicle Optic Sensor System (VOSS) and Common Remotely Operated Weapon Station (CROWS)

45 to 60 Days Five (5) days of Government provided training at Contractors facility in London, Ontario, Canada that covers required training and familiarization on the RDS,OGPK, and the Chevron Armor Solution.

3.2.2 Intentionally left blank

3.2.3 Government Furnished Equipment (GFE): The following list provides the Governments anticipated availability of GFE, in days, following AoC. All GFE shall be returned to the Government at the conclusion of this effort:

30 Days Qty 1 Robot Deployment System (RDS), Cage 19207 PN 12571775, to include itemized contents list.

30 Days Qty 1 M1270 vehicle, NSN 2355-01-616-9288, PN M1270, to include itemized contents list

60 Days Qty 1 M1270 vehicle, NSN 2355-01-616-9288, PN M1270, to include itemized contents list

30 Days Qty 1 Interrogation Arm (IA), NSN 2590-01-618-5030, PN 12571776, cage 19207, to include itemized contents list.

30 Days Qty 1 IA Field Maintenance Tools, for Incorporation into M1270 FMTK, to include itemized content list.

30 Days Qty 1 Maintenance Support Device (MSD) with Internal Combustion Engine (ICE), NSN, to include itemized content list.

30 Days Qty 1 Objective Gunner Protection Kit (OGPK), Cage 19200, PN 13024000, to include itemized content list.

30 Days Qty 1 Common Remote Operated Weapons Station (CROWS), NSN 1090-25-160-1292, to include itemized content list.

30 Days Qty 1 Vehicle Optics Sensor System (VOSS), NSN 5895-01-564-7999, PN ANVSQ-6B, to include itemized content list.

30 Days Qty 1 Chevron Bar Armor Kit, 19207, N/A, to include itemized content list.

30 Days Qty 1 General Mechanics Tool Kit (GMTK), to include itemized content list.

30 Days Qty 1 Standard Army Tool Set (SATS), to include itemized content list.

30 Days Qty 1 Forward Repair System (FRS), to include itemized content list.

3.3 Intentionally Left Blank

3.4 MANAGEMENT AND ADMINISTRATION

3.4.1 Contractor Management

3.4.1.1 The Contractor shall comply with the terms of this SOW in strict accordance with the Department of Defense (DoD) Regulations, specifications, and requirements identified herein. The Contractor is responsible for meeting all of the requirements defined in the contract and corresponding CDRLs.

3.4.1.2 The Contractor shall be responsible for the administration, operation and conduct of all persons they employ.

3.4.1.3 The Contractor is responsible for the management, oversight, and control of subcontractor and their performance in support of this effort.

3.4.1.4 The Contractor shall establish a program management office function and in support of this contract effort designate a Contractor Integrated Logistics Support Manager (C-ILSM) to manage all technical performance, schedule, ILS, data, and hardware delivery. The C-ILSM shall be responsible for corresponding with the Governments ILSM and COR for day-to-day management of this effort. The Contractor shall establish and maintain management operations that shall include the following areas:

3.4.1.4.1 Program Planning and Control

3.4.1.4.2 Subcontractor Control

3.4.1.4.3 Data Management

3.4.1.4.4 Management and Accountability for GFE/GFI

3.4.1.4.5 Risk Management

3.4.1.4.6 Quality Assurance

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3.4.1.5 Contractor Quality Control: The Contractor shall implement and maintain an effective quality control program to ensure services are performed in accordance with this SOW. The Contractor shall implement procedures to identify and prevent or ensure non-recurrence of defective services. The Contractors quality control program is the means of assuring the work complies with the requirement of this SOW. The Contractor is responsible to ensure the quality of all documentation prior to submittal to the Government. If the Government finds that there has not been sufficient or proper validation of data submitted or that the quality controls in place are not effective, review of documentation will cease and the data submittal will be rejected and not considered for acceptance until it is corrected.

3.4.2 Government Program Management

3.4.2.1 The Government will manage and monitor this contract through the use of meetings, document review, and visits to Contractors facilities.

3.4.2.2 The Procurement Contracting Officer (PCO) has the over arching responsibility and final approving authority for this contract. Only the Government PCO is authorized to modify or change this SOW.

3.4.2.3 The Contracting Officer Representative (COR) is the appointed administrator designated in accordance with DFARS 201.602-2 for receipt and commentary for all CDRL deliverables, Wide Area Work Flow (WAWF) payment approvals, and is the voice of the Support Integrated Product Team (SIPT). The COR appointment information will be provided to the Contractor at the time of Contract Award. The Government will provide notice of any changes to the COR within 5 days. The COR is not authorized to make any commitments or changes that will affect price, quantity, delivery or any other term or condition of this SOW.

3.4.2.4 All guidance provided by the Government will be submitted through the COR or PCO. Any guidance provided by any other Government representative should immediately be brought to the COR/PCOs attention for concurrence or rejection of the guidance, along with copying the Government System Acquisition Manager (SAM) and Government ILSM (G-ILSM).

3.4.2.5 The Government Contract specialist shall be included on all submittals for documentation and tracking purposes.

3.4.3 Contract Administration

3.4.3.1 Contractor Access: To support this effort, the Contractor may request on-line access to certain Government systems. Prior to receiving access, the Contractor must ensure that the personnel assigned to these tasks have been cleared to have such access through a Government security investigation. Foreign Nationals will be approved on a case by case basis. Contractor access to the on-line systems will be revoked if actions of the personnel assigned are found to be in conflict with the interests of the Government. All requests shall be submitted for COR signature concurrence. The Contractor shall obtain a Common Access Card (CAC) to support this contract. All personnel requiring access to SharePoint or Government facilities shall request a CAC through CVS to the COR. The Government understands that the Contractor and its subcontractors are considered a Foreign National and will ensure that the Contractor and its Subcontractors are granted access to SharePoint. If SharePoint is inaccessible for use by GDLS-C or the Government then use of the AMRDEC Safe Access File Exchange (i.e. Safe Site) is permissible. The Government will ensure that they are authorized to transfer technical data to the Contractor, Subcontractors and sub-licensees under the Canadian exemption (126.5(b)).

3.4.3.2 Data and Software Requirements

3.4.3.2.1 The Contractor shall prepare each data submittal as described in the Data Item Descriptions (DID) and the Contract Data Requirements List (CDRL).

3.4.3.2.2 Data Items shall be submitted in American English.

3.4.3.2.3 Data Items shall be submitted in Windows XP/Microsoft or Windows 7 compatible files.

3.4.3.2.4 Hardcopy Deliveries: The Contractor shall deliver hard-copy submissions to the following addresses.

3.4.3.2.4.1 AMSTA-LCC-MAI: US ARMY TACOM LCMC, 6501 E. 11 Mile Rd, Bldg 231, 3rd Floor, Mail Stop 528, ATTN: AMSTA-LCC-MAI, M1270 Program, C/O Eric Canales, Warren, MI 48397-5000.

3.4.3.2.4.2 SFAE-CSS-MR-A: US ARMY TACOM LCMC, 6501 E. 11 Mile Rd, Bldg 252, Mail Stop 808, ATTN: SFAE-CSS-MR-A, M1270 Program, C/O COR, Warren, MI 48397-5000.

3.4.3.2.4.3 The Contractor shall annotate all DVDs with the following information.

3.4.3.2.4.3.1 Contract Number

3.4.3.2.4.3.2 CDRL Number and Name

3.4.3.2.4.3.3 Delivery Type

3.4.3.2.4.3.4 Date

3.4.3.2.4.3.5 Contractor Name

3.4.3.2.4.3.6 System Name

3.4.3.2.4.3.7 Unclassified/FOUO

3.4.3.2.4.3.8 Distribution Statement X (see C.3.4.3.4 to determine correct distribution)

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3.4.3.2.5 Electronic Deliveries: This Contract will be supported using the US Army TACOM LCMC, PM AMS SharePoint Page. All deliverables and information exchange electronically will be submitted into SharePoint or through the AMRDEC Safe Access File Exchange (i.e. Safe Site). Zip files are permitted, if the submission requires multiple individual files. The Contractor shall name all electronic submissions in the following manner:

Contract - CDRL Number Subtitle of CDRL + Submission Number - Submission Item Name Day of Submission

3.4.3.2.5.1 Contract: The last 7 alphanumeric code of the contract number

3.4.3.2.5.2 CDRL Number: shall be exactly as appears on the CDRL

3.4.3.2.5.3 Subtitle of CDRL: shall be exactly as appears on the CDRL

3.4.3.2.5.4 Submission Number: Is 4 to 5 alphanumeric code indicating submission/resubmission number. An S indicates a first-time submission, an RS indicates a Resubmission. The submission number shall be 3 digits long (i.e. 001, 010); the resubmission number shall be the same 3 digits long with an extension corresponding to the resubmission number (i.e. 001.1, 010.1, 001.2)

3.4.3.2.5.5 Submission Item Name: Shall indicate what the item is and the type of submission (i.e. Draft, Final, Conference Package, etc.)

3.4.3.2.5.6 Day of Submission: Shall be DDMMYY (the month shall be spelled out in alpha characters)

Example: 13D0013 - NET001 Critical Task List S001 - Draft CTL 09May2013

Example: 13D0013 - PKG002 - Special Packaging Instructions (SPI) RS003.1 Draft M1270 SPI Revision 09May2013

3.4.3.3 Operations Security (OPSEC) Review: All data and documentation submitted under this contract will be subject to OPSEC review. The Contractor shall consider its data OPSEC sensitive and shall notify the PCO of any request for data from any other agency or entity. Prior to public release all data delivered must undergo review if the Distribution Statement is selected as A (see C.3.4.3.4).

3.4.3.4 Distribution Statements: The Government shall use DoDI 5230.24, Distribution Statements on Technical Documents, to determine the appropriate Distribution Statement that should be placed on documentation created under this effort. Note that different products delivered under this effort may require different Distribution Statements it is the Contractors responsibility to identify any unique requirements so that the Government can then assign the correct Distribution Statement, utilizing DoDI 5230.24, Enclosure 4, Table 5 as supporting rationale for its selection. For any distribution statement, other than A (see C.3.4.3.3), the controlling DoD Office is AMSTA-LCC-MA, Program Name, 6501 E. 11 Mile, Warren, MI 48397-5000. The Contractor shall identify to the Government at the Start of Work meeting its proposed Distribution plans for each CDRL for review and concurrence, in order for Government to assign the correct Distribution Statement.

3.4.3.5 Correction of Errors: Errors are defined as the items that cannot be performed as written, not meeting the applicable Military-Standard and AMS Route Clearance Style Guide. Validator/maintainer preference cannot be considered an error that would be corrected at the Contractors cost. Pass/Fail criteria must be defined based on the ability of the written tasks to be performed. Preferential change will be considered as additional scope. The Contractor shall correct all errors found in the TMs, TSP, ETMs, logistics documents, and electronic data files resulting from Government reviews, tests, verification, demonstrations, or assessments as defined within this SOW at no additional cost to the Government.

3.4.3.6 Rework: The Contractor shall submit contract deliverables throughout the life of the contract in part (ex. data submissions) and/or in whole (ex. draft TMs), which are subject to acceptance or rejection by the COR or PCO. Contract deliverables that are rejected in part and/or whole shall be reworked by the Contractor before re-submittal to the Government for acceptance. Therefore rework is defined as any deliverable rejected in part and/or in whole that is returned to the Contractor to be reworked to meet contract acceptance criteria by the Government. The Contractor shall resubmit corrected data within prescribed calendar days in accordance with corresponding CDRLs.

3.4.3.7 Receipt and Acceptance: It shall be understood that submission of an item does not constitute receipt by the Government. The COR will provide written notice to the Contractor of receipt. It shall be understood that Government receipt of documentation does not constitute acceptance. Government acceptance of documentation hinges on the completeness, accuracy, compatibility to applicable military standards and regulations of submitted documentation, and the following of applicable military specifications and standards. The Contractor shall carefully review all data explained in the applicable SOW paragraphs to fully understand what the Government is basing its acceptance of documentation on. The COR will provide written notice to the Contractor as to the status of its submission within the review time outline in the applicable CDRL. Explanation of any rejection will be provided by the COR. The Government reserves the right to final payment, as outlined in the progress based payment schedule if data deliverables are delinquent. The Contractor shall be responsible for ensuring all data deliverables required in this scope of work are completed and accepted in order to meet the requirements specified within this scope of work.

3.4.3.8 TM Authority: AMSTA-LCC-MAI is the designated Government TM, RPSTL, provisioning, and maintenance acceptance activity. Notification of comments from AMSTA-LCC-MAI will be made through the PCO/COR, see C.3.4.2.4. If the Contractor receives comments or corrections from any Government activity, the Contractor shall forward these comments and corrections to the Government PCO/COR for direction whether to be incorporated into the Scope of Work.

3.4.3.9 Common Access Card (CAC): The Contractor shall request CACs to access the Governments SharePoint Page for data submission and

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facility access for only those employees directly supporting this effort.

3.4.3.10 Facility Access: The Government will provide information to support the Contractors access to Government facilities and locations in order to support this effort. The Contractor shall provide Government personnel with access to the Contractors facility where the effort for this SOW is being performed, for both announced and unannounced visits. The Contractor shall issue pre-authorized key personnel (identified at the Start of Work meeting) access badges to the Contractor (and subcontractor) facility.

3.4.3.11 Movement and accountability of GFE: The Contractor shall be prepared to receive GFE during the life of this contract. The Contractor shall coordinate shipment of GFE, when directed by the Government. The Government will provide funding for shipment of GFE to and from the Contractors facility.

3.4.3.12 Security Requirements

3.4.3.12.1 All information or data developed under this contract and shall be marked and handled as For Official Use Only (FOUO) and appropriately tagged with a Distribution Statement (see C.3.4.3.4). FOUO is information that may be withheld from the public under exemptions 2 through 9 of the Freedom of Information Act. Control, marking and protection of FOUO information will be in accordance with this document and Army Regulation 380-5, Chapter 5, paragraph 5-1 through 5-6. The Contractor may disseminate FOUO information to their employees who have a need to know the information in connection with this Scope of Work. At the conclusion of the contract, all FOUO material not delivered to the Government will be destroyed by tearing or shredding to make it unreadable. FOUO material stored on electronic media will be purged or destroyed through a physical process. FOUO information may be disseminated by vendors internal computer network provided it is protected with a security firewall and individual access is controlled by using IDs and passwords. The Contractor shall not release any information or data to third parties without the prior express written approval of the PCO.

3.4.3.12.2 The Contractor shall have access to Government data for the accomplishment of work under this Scope of Work; Contractors shall conform to all security requirements.

4.0 REPORTS, PLANS, AND DATA

4.1 Agendas (CDRL A001):

The Contractor shall submit an agenda, briefing charts and supporting documentation for each meeting as identified in C.5.0.

4.2 Minutes (CDRL A002):

The Contractor shall prepare and submit minutes after every event identified in C.5.0.

4.3 Performance Report (CDRL A003):

The Contractor shall submit a Contractor Status Report in Contractor format.

4.4 Internal Organizational List (CDRL A004):

The Contractor shall provide the Government with a list of all key functional Contractor personnel involved in this effort. This list shall be updated whenever key personnel changes are made to maintain accuracy.

4.5 Integrated Master Schedule (IMS) (A005):

The Contractor shall develop an IMS for all documents required in this PWS. The Contractor shall maintain the IMS for the lifetime of the contract. The Contractor shall immediately notify the Government if they foresee a baseline date change to all CDRL deliveries. The notification shall include: (1) the reason for the change and (2) the revised schedule. The Government reserves the right to review and approve any Contractor proposed IMS updates that impact contract delivery schedules. If any proposed Contractor changes, related to the Firm Fixed Price CLINs create delays or impacts to the Governments program plans, the Government may request equitable adjustment to the contract.

4.6 Logistics Quality Plan (CDRL A006):

4.6.1 Overview: The Contractor shall be responsible for the quality of all logistics documentation developed under this effort. The Contractor shall deliver all products that are complete, technically accurate, and adheres to the requirements identified within this PWS.

4.6.2 Requirements: The Contractor shall develop a quality assurance plan in which the Government has the right to conduct periodic QA reviews by persons different than those preparing the logistics materials, maintenance of QA records, TM development process improvement, and data controls to ensure that current, accurate engineering data and parts information is made available to all Contractor personnel assigned to this effort.

4.6.3 System: The Contractor shall have a quality management system as a measurement of product quality for logistics documentation

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produced for this contract. The Contractors quality management system shall be made available and accessible at anytime for Government review and evaluation to assess the Contractors quality system compliance, implementation and effectiveness. The Government representatives have the right to review and comment on the Contractors QA Plan, records, and processes at any time.

## 4.7 Technical Manual Plan (A007):

The Contractor shall prepare and deliver a TM Plan. The purpose of this plan is to describe the development process the Contractor shall use to plan, gather data, author, illustrate, produce, review, and deliver the required equipment publications under this contract.

## 4.8 Technical Manual Quality Assurance (TMQA) Program Plan (A008):

The Contractor shall develop and execute a TMQA to ensure the quality of the TMs and NMWRs produced under this contract. The Contractors execution of the TMQA shall consist of QA personnel that are not the writers or editors of the publications being prepared. Validation records showing those publications corrections, deletions, and additions that were identified during the publications validation process shall be maintained. Other QA records shall be identification of change, corrections, deletions, and additions to publications that resulted from QA edit reviews.

## 5.0 PROGRAM EVENTS

## 5.1 Start of Work (SOW) Meeting:

5.1.1 The Government will conduct a Contract Start of Work Meeting thirty (30) days after contract award at TACOM LCMC, 6501 E 11 Mile Road, Warren, MI. The Contractor shall make available contract administration personnel, management, engineers, and logistic support personnel to carry out this PWS. The duration of the Contract Start of Work Meeting is anticipated to be one (1) business day.

5.1.2 Discussions at the meeting shall include contract requirements, the establishment of lines of communications, required plans and reports, and document delivery.

## 5.1.2.1 The Government will:

5.1.2.1.1 Review of the SOW

5.1.2.1.2 Identify Contractor support requirements for testing

5.1.2.1.3 Review of Support Equipment (SE) and Test Measurement and Diagnostic Equipment (TMDE)

5.1.2.1.4 Discuss Packaging, Handling, Storage, and Transportation (PHS&T) requirements

5.1.2.1.5 Discuss NET requirements

5.1.2.1.6 Provide an overview of the Maintenance, Provisioning, and Publications requirements

5.1.2.1.7 Discuss GFE/GFI

## 5.1.2.2 The Contractor shall:

5.1.2.2.1 Provide a listing of Contract Personnel (see C.4.4)

5.1.2.2.2 Provide and discuss its quality control process for ILS development (see C.4.6)

5.1.2.2.3 Present its IMS (see C.4.5)

5.1.2.2.4 Identify any design influence and integration efforts considerations

5.2 Maintenance, Publications, and Provisioning (MPP) Guidance Conference: The MPP Guidance Conference will be held in conjunction with the Start of Work Meeting. The duration of the MPP Guidance Conference is anticipated to be five (5) business days. The Contractor shall present detailed paths and milestone graphic presentations that define Contractor performance necessary to meet all contract delivery requirements during this meeting. At the MPP Guidance Meeting, the Government will discuss the following topics. The Contractor shall prepare any questions, issues, or areas that they require clarification on as it pertains to these topics: The meeting will include, but not be limited to discussions on the following topics:

5.2.1 Technical Manual Book Plan (see C.4.7)

5.2.2 TMQA (see C.4.8)

5.2.3 Maintenance: To review and discuss operator and maintenance functions and what constitutes reparable items (see C.6.0)

5.2.4 Special Tools and Test Equipment (STTE): To discuss authorized tool sets and expectations (see C.7.0)

5.2.5 Provisioning Guidance: to provide guidance to the Contractor for documenting and submitting provisioning data (see C.9.0)

5.2.6 Publications Guidance: Review and discuss of publications requirements and expectations (see C.11.0)

5.2.7 New Equipment Training Meeting: To review and discuss training requirements (see C.16.0)

5.3 Contract Status Meetings: The Government and Contractor shall have a monthly Status Review Meetings, via teleconference hosted by COR. The purpose of the meetings shall be to review status and progress of all deliverables under this contract.

5.4 In-Process Reviews (IPRs): The Contractor shall participate in all IPRs, which will be held quarterly. The initial IPR will be held in Warren, MI approximately 45 days after the Start of Work Meeting (see C.5.1). Follow on IPRs will be held in Warren, MI at a Governments facility on a quarterly basis, with consideration of program events. The purpose of an IPR is to discuss schedule, over view of program status, and conduct CDRL review. The Contractor shall present its performance report (see C.4.3) a detailed presentation covering schedule (see C.4.5), program status, status of each CDRL, upcoming meetings, data access to Government software, facility

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access, identification of any problem areas, and mitigation plans for any schedule slippage. The Contractor may present any additional information at the IPR they deem pertinent to this effort; such information shall be identified in the IPR agenda (See C.4.1).

**5.5 Maintenance Publications and Provisioning (MPP) Reviews:**

5.5.1 Overview: These reviews are held at the working level to allow the Government and Contractor to assess and discuss logistics documentation development. The first MPP Review will be held 45 days after the MPP Guidance Conference (see C.5.2), with follow-on meetings approximately every 30 days, as coordinated between the Government and the Contractor. These meetings will be held at the Contractor facility, however, when jointly agreed upon between the Contractor and the Government, the meeting may be held at an alternate location. The MPP is led by the Government Maintenance Manager and will cover technical issues and concerns. MPPs are not to be considered In-Process Reviews (IPRs) or Contract Status Meetings. The purpose of these events is to maintain consistent oversight and review of products in development to help ensure successful validation and verification. The Contractor shall be prepared to have the material listed below available for review as notified ten (10)\~days prior to each event.

5.5.2 Personnel: At minimum the personnel from the following functional areas are recommended to attend the MPP meetings: a) Quality Assurance (QA), b) Maintenance, c) Technical writers, d) Illustrators, and e) provisioning. The Contractor shall provide appropriate technical specialists to attend MPP technical meetings, to receive guidance, clarification or assistance from the Government functional specialists during the course of the development effort as coordinated with the Government based on that MPPs agenda (see C.4.1).

**5.5.3 Requirement:**

The Contractor shall display the information listed below in Contractor format (Excel as applicable) containing all required MIL-STD content requirements prior to the PTM #1 deliveries with the exception of the Sample WPs and Training Material which will be displayed in MIL-STD format. After and including PTM #1 delivery, all material listed shall be in MIL-STD format. The Contractor shall be prepared to have the material listed below available for review ten (10)\~days prior to each event, as identified by each CDRL accordingly.

The Contractor shall be prepared to have the material listed below available for review ten (10)\~days prior to each event, as identified by each CDRL accordingly.

5.5.3.1 Maintenance Analysis (see C.6.10)

5.5.3.2 Maintenance Allocation Chart (see C.6.12)

5.5.3.3 Level of Repair Analysis (LORA) (see C.6.11)

5.5.3.4 Expendable Durable Items List (EDIL) (see C.6.6)

5.5.3.5 Basic Issue Items (BII) (see C.6.5)

5.5.3.6 Component of End Item (COEI) (see C.6.4)

5.5.3.7 Mandatory Replacement Parts List (see C.6.9)

5.5.3.8 STTE List (see C.7.1)

5.5.3.9 Critical Task List (see C.16.2.1)

5.5.3.10 Authorized Stockage List (ASL) (see C.18.0)

5.5.3.11 Sample WPs (maintenance, troubleshooting, PMCS, RPSTL, schematics, etc)

5.5.3.12 Sample Training Material (agendas, POIs, etc)

5.5.3.13 MPP Reviews 1, 2 and 3 will be the forum to facilitate Government review and acceptance of new M1270 Technical Data for Government modified components that are the result of Government ECPs including schematics

5.6 Training Review Conference (TRC): The Contractor shall conduct a TRC to identify and resolve potential problems and discuss areas of mutual interest in regard to training to both the Government and Contractor. Subsequent TRCs shall be conducted as a sub-component to the MPPs (see C.5.2) to ensure that tester, trainer, supporter, and user training requirements are met.

5.7 Provisioning Conferences: The Contractor shall provide appropriate provisioning technical specialists to attend and provide data clarification to the Government during the course of the effort and expect to receive immediate feedback from the Government functional specialists. Formal provisioning conferences shall be held at the Contractor's facility. The Contractor is expected to present the data, rationale, and supporting documentation to the Government team for each Provisioning Line Item Sequence Number (PLISN). Every provisioning conference must cover a complete assembly and provide the next higher assembly Engineering Data for Provisioning (EDFP) for tracking purposes. Provisioning Conferences will last 40 to 80 hours and cover approximately 600 to 1200 records (PLISNs), respectively. The Government and Contractor may mutually agree to run an 80 hour conference to cover approximately 1200 lines. The Contractor shall host the first Conference seventy-five (75) days after the first MPP Review (see C.5.5). The first Conference will be dedicated to achieving CMR and will last 80 to 120 hours and cover approximately 1200 to 1800 records (PLISNs). Follow-on provisioning conferences shall be held approximately every thirty (30) to forty five (45) days at the conclusion of the first Provisioning Conference with a maximum of fourteen (14) conferences. The Contractor shall adjust the time between conferences accordingly, relative to the systems and the amount of information being presented at the conference. The Contractor shall provide the following information, as necessary, and relative only to the PLISNs being presented at the provisioning conference, to support the provisioning conference effort:

5.7.1 Two (2) hard copies of the Provisioning Parts List (PPL) in a format acceptable to TACOM Logistics Modernization Program (LMP) database (1552 or LSA-036 format) (see C.9.2). One (1) electronic copy and 1 hard copy of accompanying Engineering Data for Provisioning (EDFP) for each PLISN (see C.9.4)

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5.7.3 One (1) electronic copy and 1 hard copy of accompanying Pre-procurement screening (PPS) for each PLISN (see C.9.4)

5.7.4 Foreign Sources of Supply Notice (see C.9.5)

5.7.5 Clean/Green Parts Certification (see C.9.6)

5.7.6 Clean/Green Parts Exception (see C.9.7)

5.7.7 Clean/Green Parts NSN Split (see C.9.8)

5.7.8 Facilities and office space including copying and data processing access

5.7.9 Internet access

5.7.10 One (1) hard copy of the MA (see C.6.10)

5.7.11 One (1) hard copy of the LORA (see C.6.11)

5.7.12 MAC (see C.6.12) - One (1) hard copy of the MAC in accordance with GEIA-STD-0007 and in the form of an LSA-004 Report.

Preliminary copies of the MAC chart may be provided in Contractor's format and is not subject to final pass/fail criteria due to the evolving nature of this document, as long as the data elements are complete in accordance with the GEIA-STD-0007. The MAC will be included in the PTM at the time of delivery and is expected to be in the standard format.

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5.7.14 One (1) hard copy of the submitted LLTI (see C.6.8) Preliminary copies of the LLTI chart may be provided in Contractors format and are not subject to final pass / fail criteria due to the evolving nature of the LLTI document. The final deliverable will be expected to be in the standard format.

5.7.15 Availability of the end item and components that are being presented at the provisioning conference. Access to the GFE provided M1270 vehicles shall satisfy this requirement.

5.8 Production Verification Test (PVT): The Government will conduct PVT testing at Yuma Proving Grounds (YPG), Yuma, AZ. The Contractor shall supply one ILS Subject Matter Expert (SME) to provide technical expertise, and act as a liaison between the Government and the OEM in support of the PWS ILS development in support of this event.

The Contractor shall provide an air card or tethering capability for internet access to use with their laptops in support of the PVT as the Government will not provide internet access.

5.9 Logistics Demonstration (LD): The Logistics Demonstration for the M1270 will be conducted as a single logistics event with two phases. The Government will conduct the initial phase logistics demonstration of the Operator Manual, M1270 including Robotic Deployment System (RDS) (-10), the OGPK Technical Manual (-10), and the Chevron Armor Solution Kit (-13&P) in order to support Conditional Materiel Release. The initial LD is anticipated to run 5 days/week, 8 hours/day for up to 4 weeks. The Government will conduct the second phase of the logistics demonstration of the Maintainer and Parts Manual, including RDS (-23/-23P) and the OGPK (-23&P) Technical Manuals in order to achieve Full Materiel Release (FMR). The initial phase of the Logistics Demonstration will be concurrent to the initial phase of the Logistics Demonstration for the Interrogation Arm (IA) (-10) and the secondary phase of the Logistics Demonstration will be concurrent to the secondary phase of the Logistics Demonstration for the Interrogation Arm (-23&P), since the IA is integrated onto the vehicle. The Logistics Demonstration to support the Maintainer and Parts Manuals is anticipated to run 5 days/week, 8 hours/day for up to 14 weeks. The Contractor shall host, attend and support as required (see C. 17.5), the LD at their facility in London, Ontario, Canada. The Contractor shall host the Government and the Original Equipment Manufacturer (OEM) of the Interrogation Arm at their London, Ontario facility. The Contractor shall provide desks, chairs, facilities and internet access at their facility where the Government executed Logistics Demonstration will occur.

5.9.1 Chevron Bar Armor. In order to meet Logistics Demonstration requirements, a draft copy of the manual will be acceptable. The elements of the draft manual that must be provided are all the requirements that the Operator is expected to perform.

5.10 Operational Test (OT): The Contractor shall support OT testing at YPG, Yuma, AZ. The Contractor shall supply one FSR to support this event (see C. 17.5). The Contractor shall provide an air card or tethering capability for internet access to use with their laptops in support of the OT. The OT phase duration will be ninety (90) days.

5.10.1 As a result of the Operational Test (OT) and in accordance with para C.3.4.3.5, the Contractor shall make all required corrections to the Technical Manuals (TMs) and document any discrepancies between the Government Task Data Sheets and what the Contractor incorporates into the TMs (CDRL A066B).

5.11 Training Events

5.11.1 Operator Level New Equipment Training (OPNET) for Phase 1 Conditional Materiel Release (CMR): The Contractor shall provide Operator New Equipment Training (OPNET) prior to the beginning of Logistics Demonstration (LD), Operational Test (OT), Verification and Instructor & Key Personnel Training(I&KPT) for the Operators Base Manual M1270 with RDS (-10), Operator portion of the Operator, Field Maintenance and RPSTL Manual, Chevron Armor Solution Kit (-13&P) and the Operators Manual for the Objective Gunner Protection Kit OGPK). Each of these four (4) discrete OPNET training events will last 40 hours each. The Contractor shall be prepared with a NET package for approximately 15 students (see C.16) for each of these required OPNET training events.

5.11.2 Field Level Maintenance New Equipment Training (FLMNET) for Phase 2 Full Materiel Release (FMR): The Contractor shall provide

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Field Level Maintenance New Equipment Training (FLMNET) prior to the beginning of the Logistics Demonstration, Verification, and I&KPT for the Maintainer and Parts Manuals M1270 with RDS (-23/23P), Chevron Bar Armor Solution (-13&P) and the OGPK Technical Manual (-23&P).

Each of these three (3) discrete FLMNET training events will last 80 hours each. The Contractor shall be prepared with a NET package for approximately 15 students (see C.16) for each of these required FLMNET training events.

**5.12 Verifications:**

**5.12.1 Verification Preparation Meeting:** The Contractor shall host a Verification preparation meeting 15 days after receipt of Government notice that the Preliminary Technical Manual (PTM) is acceptable to move into Government Verification for the Operators Manual with RDS (-10), the OGPK (-10), the Chevron Armor Solution Kit (-13&P). The Government will provide formal notification of the Contractors readiness for the upcoming verification, ensure the BII, COEI, STTE availability, and review the proposed parts listing in support of verification (see C.15). The duration of the Phase 1 (CMR) Verification Preparation Meeting is anticipated to be two (2) business days.

The Contractor shall host a Verification preparation meeting 15 days after receipt of Government notice that the Preliminary Technical Manual (PTM) is acceptable to move into Government Verification for the Maintainer and Parts Manual (-23/23P) inclusive of RDS, and the OGPK Technical Manual (-23&P). The Government will also review the Verification Plan (see C.15) during both occurrences to ensure the Contractor fully understands its responsibilities and to ensure that the plan has been updated to satisfy the requirements of both phases of Verification. The duration of the Phase 2 (FMR) Verification Preparation Meeting is anticipated to be two (2) business days.

The Government will assess if all entrance criteria expectations have been met and that both phases of the Verification can be scheduled (see C.15).

**5.12.2 Initial Verification (Operator):** The Government will conduct the initial Verification on the M1270 Operator Technical Manual with RDS (-10), the OGPK Technical Manual (-10), the Chevron Armor Solution Kit (-13&P), and the (see C.15). The initial Verification for the M1270 will be concurrent to the Verification for Technical Manual for the IA (-10), since the IA is integrated onto the vehicle. The Verification is scheduled to run 5 days/week, 8 hours/day for approximately one (1) month. Any delays as a result of documentation rework (see C.3.4.3.5, C.3.4.3.6) shall be the responsibility of the Contractor, and could result in an extended Verification duration. The Contractor shall host and attend the Government conducted Verification at the Contractors facility in London, Ontario, Canada. The Contractor shall host the Government and the Original Equipment Manufacturer (OEM) of the Interrogation Arm at their London, Ontario facility. The Contractor shall provide desks, chairs, facilities and internet access at their facility where the Government executed Verification will occur.

**5.12.3 Secondary Verification (Maintainer):** The Government will conduct the secondary Verification on the M1270 Maintainer and Parts Technical Manuals (-23/23P), inclusive of RDS, and the Technical Manual for the OGPK (-23&P) (see C.15). The second phase of the Verification for the M1270 will be concurrent to the second phase of the Verification for the IA (-23&P), since the IA is integrated onto the vehicle. The Verification is anticipated to run 5 days/week, 8 hours/day for approximately nine (9) months. Any delays as a result of documentation rework (see C.3.4.3.6) will be the responsibility of the Contractor, and could result in an extended Verification duration. The Contractor shall host and attend the Government conducted Verification at the Contractors facility in London, Ontario, Canada. The Contractor shall host the Government and the Original Equipment Manufacturer (OEM) of the Interrogation Arm at their London, Ontario facility. The Contractor shall provide desks, chairs, facilities and internet access at their facility where the Government executed Verification will occur.

**5.12.4 Component NMWR/RPSTL:** The Government will conduct Verifications on the M1270 component NMWRs. Each component NMWR (see C.12.3.5) is anticipated to run 5 days/week, 8 hours/day for 2 weeks. The Government intends to conduct these Verifications back-to-back. The Contractor shall be prepared to attend Verification at Red River Army Depot, Texarkana, TX, USA. The Contractor is required to provide each one of the components to support Verification (see C.15) in its LLRC (see C.10.11) as applicable.

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**5.13 Operator and Field Level Maintainer Instructor and Key Personnel (IKPT) training (IKPT):** The Contractor shall provide IKPT at a designated Government facility. The Contractor shall provide a complete TSP, Student, and Instructor Guides (see C.16) for both Operator and Field Level Maintainer for each student. The Contractor shall develop and provide IKPT that will be supported by the Job Task Analysis (JTA) (see C.16). The Operator IKPT is anticipated to run 8 hours/day for 5 days (approximately 40 hours training time) for 8 12 students. The Maintainer IKPT is anticipated to run 8 hours/day for 10 days (approximately 80 hours training time) for 12 15 students.

**6.0 MAINTENANCE****6.1 Maintenance Concept**

**6.1.1**The purpose of Army maintenance is to generate and regenerate combat power and preserve the capital investment of combat systems and equipment to enable training and mission accomplishment. The Army relies on four core maintenance processes to manage equipment during the courses of its useful service life to achieve a high state of readiness. They are performance observation, equipment services, fault repair, and single standard repair.

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6.1.2 In accordance with AR 750-1 and the Armys maintenance philosophy, the end item will be serviced, maintained, repaired and overhauled at the lowest levels of Army maintenance possible by military personnel. The Contractor shall comply with the Army Maintenance System, as defined within AR 750-1, when developing logistics documentation. The Army Maintenance System consists of two levels, Field and Sustainment.

6.1.3 Operator/crew maintenance is the most critical operation of the Army maintenance system. Operator/crew performing PMCS from the applicable TM XX-10 series is the cornerstone of the Army Maintenance System. The before, during, and after PMCS checks concentrate on ensuring equipment is FMC and maintained in accordance with the TM XX-10 series operators manuals.

6.1.4 Field Maintenance is on-system maintenance, repairs and returns equipment to the operator or the user.

6.1.5 Field maintenance is the first function of the Army maintenance system.

6.1.6 Field mechanics will use the TM XX-10 and TM XX-20 series to identify and correct faults. The TM XX-20 series PMCS tables are used to perform scheduled PMCS services that sustain and extend the FMC time of the equipment.

6.1.7 Depot maintenance is off-system maintenance, primarily repairs and returns equipment and components to the supply system.

6.1.8 Depot maintenance is the second function of the Army maintenance system.

6.1.9 Depot maintenance is characterized by commodity-oriented repair of components and end items in support of the Army.

**6.2 Supportability Analysis (CDRL A009):**

The Contractor shall conduct a supportability analysis as an integral part of the Maintenance Analysis (see C.6. 10) systems engineering process beginning at program initiation and continuing throughout program development. Supportability analysis shall form the basis for related design requirements included in the system specification and for subsequent decisions concerning how to most cost-effectively support the system over its entire life-cycle. Supportability analyses shall form the basis for related design requirements included in the system specification and for subsequent decisions concerning how to most cost-effectively support the system over its entire life-cycle. This supportability analysis shall address the needs of the end item in terms of operator and maintenance task requirements and the associated support resources required.

**6.3 Maintenance Planning (CDRL A010):**

The Contractor shall conduct Maintenance Planning that determines maintainability characteristics of the end item. This analysis shall be documented in a Maintenance Planning Summary. A maintenance planning summary should include supporting information from the RAM testing that justifies the need for maintenance actions (e.g., failure modes, etc.). Other reliability and maintainability data could also be incorporated includes, but is not limited to: task frequency, failure rate of an item or mean time between failure, mean time to repair an item, mean time between maintenance actions, mean time between removals, and operational availability. The summary shall be broken down within the hierarchy of the end item by major component. The Contractor shall find commercially available reliability information to support this Maintenance Plan. The Contractor shall find commercially available reliability information to support this Maintenance Plan or provide a letter of refusal from the Subcontractor, if required.

**6.4 Component of End Item (COEI) (A011):**

The Contractor shall identify the COEI, per AR 700-18. COEI are part of the End Item that must be with the End Item, whenever it is issued or transferred between property accounts. COEI are removed and separately packaged for transportation. All major components of the end item will be identified and described in the operator manual. In addition, any component identified on the engineering drawing that is physically separate and distinct and that must be removed from the end item and separately packaged and stored for transportation will be separately listed by NSN in a table as an appendix in the operator's manual.

**6.5 Basic Issue Items (BII) (CDRL A012):**

6.5.1 The Contractor shall identify the BII, per AR 700-18. BII are those items identified as essential for an operator or crew to place the end item into initial operation to accomplish its defined purpose. These items are essential to perform emergency repairs which cannot be deferred until completion of an assigned mission and routine maintenance.

6.5.2 The BII are not listed on the engineering drawings. The BII includes those select common and special purpose tools, TMDE, spare and repair parts, Operator publications, first aid kits, and safety equipment (for example fire extinguishers) authorized for the end item.

Although spare and repair parts are not normally included in BII, exceptions may be made to meet the criteria above.

**6.6 Expendable Durable Items List (EDIL) (CDRL A013):**

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6.6.1 The Contractor shall identify the EDIL for the end item, which is a living document. The list defines the expendable/durable supplies and materials required for operating and maintaining the End Item. The Contractor shall provide US-based sources to support the EDIL.

6.6.2 The minimum requirements for each submittal are the following: Item Number, Maintenance Level, National Stock Number, Description, Commercial and Government Entity (CAGE), Part Number, and Unit of Issue (UI). Final submittal of the Expendable and Durable Items List (EDIL) shall be in the format as depicted in MIL-STD-40051-2B and included in the applicable section of the final submission of the Department of Army (DA) Technical Manual (TM).

6.7 Additional Authorized Items List (AAL) (CDRL A014):

6.7.1 The Contractor, in coordination with the Government, shall develop a proposed AAL listed based on the Capabilities Production Document (CPD) for the end item. AAL items are optional to be used to support the end item during operations, per AR 700-18. The AAL are listed in the end item operator manual for informational purposes.

6.7.2 AAL items are:

6.7.3 Items not issued with the end item and are not listed on the end item engineering drawings as part of the end item NSN configuration.

6.7.3.1 AAL items are not required to be turned in with the end item.

6.7.3.2 AAL items will be listed in the operators manual by NSN. The recommended minimum quantity of each item recommended for support of one end item will be identified.

6.8 Long Lead Time Items List (LLTI) (A015):

6.8.1 The Contractor shall identify the LLTI. LLTIs are those identified as requiring advance ordering to meet delivery schedules. LLTI repair parts present a problem because of the provisioning cycle and procurement lead times are extensive. LLTI may be items that due to their complexity of design, complicated manufacturing processes, or limited production capacities cause extended production of procurement cycles beyond six (6) months. These items can create supply issues if not ordered in advance of the normal provisioning process.

6.8.2 Items identified on the LLTI shall contain the following: Item name, level of maintenance, NSN (if applicable), CAGE, P/N, description, quantity required for the end item, unit price, PLISN, and production lead time. The Contractor shall also submit corresponding EDFP (see C.9.4).

6.9 Mandatory Replacement Parts List (MRPL) (CDRL A016):

The Contractor shall identify and provide MRPL for all items that require replacement on the end item. MRPL items are items to be used to support the end item during repair operations. MRPL items are listed in the end item Operator Manual. This includes a list of all mandatory replacement parts referenced in the task initial setups and procedures. These are items that must be replaced during maintenance whether they have failed or not. This includes items based on usage intervals such as miles, time, rounds fired, etc.

6.10 Maintenance Analysis (MA) (CDRL A017):

6.10.1 The Contractor shall analyze the operational, maintenance and support function of the system in the identification of required operator and maintenance tasks. Maintenance of the end item will be driven by the Armys maintenance system, (C.6.3). The analysis shall be reliability-centric and identify maintenance functions, levels of maintenance, manpower, spare parts and the support equipment required, as clarified by Attachment A0001 (Maintenance Analysis). The Contractor shall incorporate the Supportability Analysis (C.6.2) into the MA.

6.10.2 Analysis shall determine all maintenance requirements and functions, including all Preventative Maintenance Checks and Services (PMCS), based on:

6.10.3 Identification of components which are critical in terms of mission and operating system

6.10.4 Components whose functional failure will not be evident to the operator

6.10.5 Economical and/or operational consequences of failure

6.10.6 Where schedule maintenance can prevent failure.

6.10.7 The analysis will be in End Item hardware top down breakdown, disassembly sequence with attaching hardware being called off first. It will identify Functional Group Codes (FGC) in accordance with Technical Bulletin (TB) 750-93-1 for each repairable item.

6.11 Level of Repair Analysis (LORA) (CDRL A018):

6.11.1 The Contractor shall conduct the Level of Repair Analysis (LORA) for the end item and its major components. These analysis shall

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determine the maintenance level at which the items should be repaired or replaced, with an evaluation threshold of \$500 for Field and \$1250 for Sustainment. The Contractor shall include economic and non-economic criteria in this analysis. Non-economic criteria that could impact the level of maintenance decision include, but are not limited to: manpower and personnel implications, support equipment and facilities availability, and the maintenance concept. Additionally, factors such as availability of replacements and the affect on operational readiness must also be considered. The Contractor shall deliver a LORA report and the source data.

6.11.2 Results of this analysis shall be incorporated in the Maintenance Allocation Chart (MAC) and in the Maintainer and Parts Technical Manuals (-23/-23P), required elsewhere in this SOW.

6.12 Maintenance Allocation Chart (MAC) (CDRL A019):

6.12.1 The Contractor shall develop the Maintenance Allocation Chart (MAC) in accordance with MIL-STD-40051-2B, for all PTM deliveries. The MACs are living documents that forms the basis for Technical Manual (TM) development; it is therefore subject to change throughout the life of the contract. The MAC designates overall authority and responsibility for the performance of maintenance tasks on the identified end item.

6.12.2 The MAC shall identify the repair functions that must be performed, the maintenance levels responsible for the function, the active repair time, tools and test equipment necessary to perform the function for each repairable assembly, subassembly, and component in Functional Group Code (FGC) sequence, in accordance with AR 750-93-1. The MAC shall be based on the Supportability Analysis, Maintenance Analysis, and LORA.

6.12.3 The MAC shall include all maintenance significant components, assemblies, subassemblies and modules. Parts requiring a test procedure prior to replacement shall also be listed in the MAC. The MAC shall utilize the same naming nomenclature as identified during the provisioning process, to comply with the official Item Name.

6.12.4 Failure Mode, Effects Analysis (FMEA) (CDRL A106):

The Contractor shall provide a Failure Mode Effects Analysis (FMEA) for items that have been identified as mission or safety critical. Mission and safety critical items shall be identified during Level Of Repair Analysis using Reliability Centered Maintenance techniques.

Non-critical items will not be subject to FMEA. This analysis will be used to determine probability of failure modes at the functional and/or piece-part level. The Contractor shall use this analysis as the foundation for the Operator Critical Task List and the Maintainer Critical Task List (C.16.2.1). The Contractor is not expected to perform a FMEA or FMECA on the current USG ECPs and the Chevron Bar Armor Solution Kit. If any additional ECPs result out of PVT then the FMEA analysis for that ECP will be addressed at that time using the above mention process.

7.0 SPECIAL TOOLS AND TEST EQUIPMENT (STTE)

7.1 STTE List (CDRL A020):

The Contractor shall deliver a list of Special Tools and Test Equipment (STTE) required for performing maintenance or troubleshooting on the M1270. The STTE list (Attachment A0002) shall include all special tools, special TMDE and all non-standard tools not available in the unit organic tool set consisting of the General Mechanics Tool Kit (GMTK), Standard Automotive Tool Set (SATS), Forward Repair System (FRS), Air Conditioning Tool Box, Army A/C Reclaimer, Hydraulic System Test and Repair Unit (HSTRU), for the MMPV. The source data for this list will be the Maintenance Analysis; performed per SOW paragraph C.6.10 Maximum use of common tools, support equipment, and TMDE normally organic to the user is required. After TM Verification the Contractor shall provide any TMDE calibration instructions (CDRL A101) requested from the United States Army TMDE Activity (USATA). The Contractor shall identify and procure non-standard tools that are not part of the US military tool inventory authorized to M1270.

7.2 Special Tools: A special tool is a tool designed to perform a specific task for use on a specific end item or a specific component of an end item and is not available in the common tool load that supports that end item or unit (unit organic tool sets) . It is authorized by the repair parts and special tool list located within that end items TM. The following paragraphs are included to clarify special tools for Army use special tools are not identified in the units authorized Component Listings (CL) from the Sets, Kits, and Outfits (SKO) SC.

7.2.1 Fabricated tools that are made from stocked items of bulk material, such as metal bars, sheets, rods, rope, lengths of chain, hasps, fasteners, and so forth. Fabricated tools are drawing number controlled and documented in Repair Parts and Special Tools Lists (RPSTLs), the Provisioning Parts List (PPL), and instructions for fabrication are located in Technical Manuals (TMs). Fabricated tools are used on a single end item.

7.2.2 Tools that are supplied for military applications only (e.g., a cannon tube artillery bore brush) or tools having great military use but having little commercial application.

7.2.3 Tools designed to perform a specific task for use on a specific end item or on a specific component of an end item.

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7.2.4 TMDE: New TMDE items (those not part of the authorized CL's in the U.S. Army SC) may require special source and calibration documentation in order to update/provide data for possible inclusion to the TMDE register (DA PAM 700-21-1). The Contractor shall provide all required calibration and repair procedures for all new TMDE.

**8.0 DIAGNOSTIC TESTABILITY ANALYSIS (CDRL A021):**

8.1 The Contractor shall perform a testability analysis of the M1270 diagnostics capability, to include number and types of diagnostic tests available for all M1270 components, assemblies, systems and subsystems.

8.2 The analysis shall identify all diagnostic fault codes for each component, assemblies, systems and subsystems and place them on a tabular format spread sheet. The codes shall be called out with the component, assemblies, systems and subsystems they support. The columns of the spread sheet shall consist of component, fault code/description, tests being performed, test equipment and parameters.

8.3 The report shall include a description of on-board electronic diagnostic systems that may be interrogated for the purpose of maintenance and troubleshooting via an on-board diagnostic display screen.

8.4 The report shall identify all the commercially available diagnostic software for all electronically controlled systems, subsystems, components and assemblies.

8.5 The Contractor shall maximize the use of embedded Built-in-Test (BIT)/ Built-in Test Equipment (BITE) diagnostic capabilities, and fully document and support embedded system software.

8.6 All data buses and diagnostic connectors for each electronic control module shall be identified in detail.

8.7 The analysis shall be documented in a Diagnostic Testability Analysis Report (CDRL A021).

**9.0 PROVISIONING****9.1 Provisioning Program**

9.1.1 The Contractor shall develop all provisioning data in accordance with GEIA-STD-0007, Logistics Product Data, guidelines of MIL-HDBK-502A, and Logistics Management Information (LMI) data worksheets and deliver in LSA 036 format. The Contractor shall provision all items required for the complete M1270 and its corresponding TMs (see C.11) and NMWRS (see C.12) within the same PCCN/PCC (see C.9.1.5). The Contractor shall provision the entire truck from top-down to include all parts that will support all RPSTLs identified within this scope.

**9.1.2 Provisioning Plan (CDRL A022):**

The Contractor shall develop a provisioning strategy that aligns with the requirements found within AR 700-18. The Contractors provisioning plan shall encompass all aspects of section C.3.4.3.8. The provisioning plan shall also include a planned schedule of assemblies and components that the Contractor shall present during each identified provisioning conference on the IMS. The goal of provisioning is to ensure that the end item is at least 90% Full Mission Capable (FMC). This strategy shall assess availability of commercial components, alignment with requirements for mainly US-based sources of supply, and availability of parts during both peace and wartime. The intent of a quality provisioning strategy is to carefully assess the coding selections made, computation of failure ratios, and provide the US Army with a supportable and sustainable system that does not exponentially grow the logistics footprint of the unit receiving the equipment. The provisioning strategy shall also carefully consider the maintenance concept plan, and analysis to ensure that the provisioning documentation provided align with both the Armys and the approved MA (see C.6.10) maintenance philosophy.

9.1.3 Provisioning data will be used for identifying, selecting, provisioning coding, determining initial requirements, and cataloging of items to be procured or supported throughout the equipments life. All items identified during the provisioning process shall be screened sufficiently to enhance competitive acquisition of support items.

9.1.4 Provisioning requires four key elements: the Provisioning Parts List (PPL), the Engineering Data for Provisioning (EDFP), and the Pre-procurements Screening (PPS), and certification of green/clean parts. The Contractor is responsible to provide data required, as defined in this SOW for each element. The Government shall use the guidance contained in GEIA-0007 and AMC PAM 700-25 for acceptance of provisioning data delivered under the provisions of contract.

9.1.5 The Contractor shall use Provisioning Contract Control Number (PCCN): CMMPV2 and Provisioning Control Code (PCC) TIT. The Contractor shall format the PPL with the M1270 as the Model Record (AAAA) and a B-indenture AAL XC place-holder for the AAL items (see C.6.7), with all AAL items identified as C-indenture (down parts are required only for AAL items that have corresponding TMs created (see C.6.7) except for the OGPk. The Contractors shall use PCCN and PCC (TBD) for the OGPk and shall include the OGPk in the PCCN CMMPV2. The Contractor shall ensure that the appropriate TM-Codes are listed on the PPL; LMP allows multiple TM-codes/Figure/Item Number entries on different lines. Example: Engine will have 3 J cards one corresponding to the 23P, one corresponding to the Engine NMWR with RPSTL.

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9.1.6 The Contractor shall ensure that items identified as requiring a Long Life Reusable Container (LLRC, see C.10.11) shall be provisioned accordingly. The Contractor shall ensure that it has the appropriate drawings and source data to support accurate and timely provisioning. Submission of LLRC provisioning data may be supplied at a Provisioning Conference that is separate from the Provisioning Conference that captures the component that the LLRC contains. The Contractor shall maintain the appropriate place holder in the provisioning record location for the LLRC's.

9.1.7 To the maximum extent practical with the exception of where there is no known replacement, the Contractor shall fully comply with the Under Secretary of Defenses requirement to minimize the use of Hexavalent chromium in the parts used to sustain the US military. The Contractor shall ensure that all items provisioned comply, to the maximum extent possible with DFARS Case 2009-D004, which allows the provisioning of the system to be considered green/clean. CDRLs A023, A024, A025, A026, A027, A028, and A029 for each conference shall incorporate the Clean Green certifications/notes that have been obtained from the source of supply for that conference. Any parts that are not clean/green shall be included on the Clean/Green Parts Exceptions List (see C9.7 CDRL-A028). The final delivery of CDRLS A023, A024, A025, A026, A027, A028, and A029 will updated pending the Government approved Clean/Green Parts Exceptions list and final clean/green source of supply certifications.

**9.2 Provisioning Parts List (PPL) (CDRL A023):**

9.2.1 The Contractor shall develop a complete PPL submittal, also referred to as a LSA-036 report (C.9.2.3). It is not the intent of the Government to prescribe the Automatic Data Process (ADP) software that the Contractor uses for provisioning efforts; however, using cost-effective ADP systems is encouraged.

9.2.2 LMP has various methods by which the Contractor can deliver provisioning data and the Government will discuss these methods at the start of work meeting. All submissions of the LMI/PPL data must be compatible with the Governments standard logistics systems and in compliance with AMC PAM 700-25. The data shall be capable of being loaded into LMP without any modification to the data. The Government will load each PPL submission into LMP, and any submission containing more than a 5% error rate will be rejected.

9.2.3 The Provisioning Parts List (PPL) shall be used to determine the range and quantity of support items required for maintenance and repair of the End Item. This includes all repairable Commercial off the Shelf (COTS) items, unless excluded by the Government. The PPL shall contain all tools, test equipment, repair kits and repair parts sets required to maintain the End Item, component or assembly equipment, unless excluded by the provisioning requirements. The PPL shall be presented and delivered in the LSA036 report format.

**9.2.4 Input media requirements for provisioning data:****9.2.4.1 American Standard Code for Information Interchange (ASCII)**

9.2.4.2 Due to the size of the end item, data may be provided in multiple deliveries. This is considered phased provisioning, per AR 700-18, and provisioning submittals shall be structured around complete assemblies that have minimal risk of changing due to test events. The Contractor shall ensure that only those items that are repair parts, special tools, Basic Issue Items (BII), bulk items, Component of End Item (COEI), unique Additional Authorized Items List (AAL), Expendable Durable Items (EDIL), or part of the end item's top-down generation breakdown will be provided to the Government. The final delivery of Provisioning Data will contain only items that have successfully passed testing and are in the final locked configuration of the end item or have a Government approved ECP.

**9.2.4.3 No Header Data****9.2.4.4 80 columns in width****9.2.4.5 Carriage return code for line end**

9.2.5 The Contractor shall include Line Replaceable unit (LRU) coding in the LSA-036. LRUs are items that can be replaced in the operational environment (field or combat conditions). LRUs may be either repairable or non-repairable items (that is, fuse, printed circuit board (PCB), engine, etc.). In general, the next higher assembly (NHA) is the EI itself. The LRU code is a one position, alpha code and will be assigned to all support items in the Provisioning Master Record (PMR) as follows:

9.2.5. 1Essential support items that are removed and replaced on the End Item (EI) at field level to restores the end item to operational condition will be assigned the code Y.

9.2.5. 2 Components that are removed and replaced on an End Item LRU (identified above in C.10.2.5.6) at operator level, which restores the end item to operational condition, will be assigned the code Y.

9.2.5. 3 All other support items will be assigned the code N.

9.2.5. 4The Contractor shall ensure that all information provided within the LSA-036 aligns with the maintenance analysis, LORA, MAC, and procedures presented in the suite of technical manuals.

9.2.6 The Contractor shall ensure that the BISS-CAT/ALW-ITM-CD; BISS-SUP; BIIL-QTY/AIC-QTY codes are indicated appropriately on the LSA-036. The Contractor shall indicate in the Remarks section on the LSA-036 the following statement, as applicable: This item is AAL to the M1270 it does not come with the end item it must be separately ordered. Item XXX in Operator TM AAL Table.

**9.3 Provisioning Pre-Procurement Screening (PPS) (CDRL A024):**

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9.3.1 The Contractor shall conduct Pre-Procurement Screening (PPS) for all items to be provisioned using the Federal Logistic Information System (FLIS) for standardization prior to submittal of a LSA-036. Provisioning screening shall be done using FLIS, WEBFLIS FEDLOG, or by batch submittal of part numbers to DLIS. Provisioning and Other Pre-Procurement Screening Data is used to identify existing NSNs for an item, validate most current NSNs, and aid in maximum use of known assets.

9.3.2. The screening shall ensure that the characteristics data of parts (i.e. common hardware) matches the required characteristics data as directed by production. (Specifically, if the requirement for a screw is brass coating, the screening should ensure that the selected common hardware NSN specifies brass coating). The screening results should ensure that the NSN is valid and procurable by the Government (i.e. Acquisition Advice Code, RNVC/RNCC, etc.). Screening pages shall be printed within 30 days of the provisioning conference start (see C.5.7).

9.3.3 The Contractor shall ensure that any items that have a PPS/existing NSN proposed, that the Source of Supply listed on the NSN certifies that the items is considered green/clean, as required by C.9.1.7, for the final delivery if not already provided at the applicable Provisioning Conference.

9.3.4 To the maximum extent possible, the Contractor shall identify MS, DIN, ISO, ANS specifications for hardware. The Contractor shall include at least two sources of supply for hardware items.

9.3.5 These results shall be used to select valid part numbers, NSNs, and current unit of measure/issue prices for provisioning purposes. The screening results must be available for review by the Government.

9.3.6 For additional information on requesting software and passwords refer to the Provisioning Screening User Guide. For additional information on WEBFLIS, go to <http://www.dlis.dla.mil/webflis>. There are two versions of WEBFLIS: Public Query and Restricted/Sign-On, which requires a valid user-id/password to access the system. User-ids may be obtained by filling out a registration form; the Contractor can request sponsorship from the COR.

9.3.7 The Contractor shall use NMCRL for screening of NATO items.

9.3.8 The Contractor shall submit the PPS on a Compact Disk-Read Only Memory (DVD) in Adobe Acrobat .PDF file. A separate file is required for each screening result. The DVD shall include a cross reference list that identifies the part number, drawing number, PLISN, and file name for each drawing. The naming convention for each screening file shall be: Program Name: PCCN-PLISN Part Number PPS Version #. The drawing package should be in PLISN sequence. This will reduce the amount of space required to store the Technical Data Package and reduce the number of copies to a single electronic copy.

9.3.9 The Government reserves the right to cancel the provisioning conference if the data provided is determined to not meet the requirements. General guidance comments will be provided, the Contractor shall have 7 days to fix all errors and resubmit the corrected information. At that time, the next conference will be scheduled.

9.4 Engineering Data for Provisioning (EDFP) (CDRL A025):

9.4.1 The Contractor shall submit Engineering Data for Provisioning (EDFP) for all items that are provisioned. A separate drawing is required for each part number. EDFP is technical data used to describe parts/equipment. EDFP consists of data such as specifications, standards, drawings, descriptions, necessary assembly and general arrangement drawings, schematic drawings, schematic diagrams, and diagrams containing wiring and cabling. These are necessary to indicate the physical characteristics, location and/or function of the item. The EDFP shall be formatted and delivered as referenced below. The EDFP shall provide item identification/descriptions necessary to support the Provisioning Parts List (PPL).

9.4.2 The documentation provided by the Contractor shall be sufficiently comprehensive to allow the customer to identify, classify, and fully describe the item within the NATO codification system reference MIL-DTL-31000A for guidance on drawings. The Contractor shall provide documentation in the following order of precedence:

1. Product drawings
2. Developmental Drawings
3. Conceptual Drawings in the form of Catalogue pages (pages must meet data requirements)

9.4.3 The EDFP provided by the Contractor must illustrate where the Unique Identification (UID) marking is located on the items identified as requiring UID.

9.4.4 Sequencing of Engineering Data for Provisioning (EDFP) will be by Part List Item Sequence Number (PLISN) and Part Number (P/N). The Contractor shall make available drawings at each provisioning conference for Government review.

9.4.5 Each drawing will be annotated with the following:

- 9.4.5.1 Provisioning Contract Control Number (PCCN)
- 9.4.5.2 Parts List Item Sequence Number (PLISN)
- 9.4.5.3 Provisioning Control Code (PCC)
- 9.4.5.4 Commercial and Government Entity (CAGE) Code

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## 9.4.5.5 Part Number (P/N)

9.4.5.6 Nomenclature: Common hardware shall include a description to include sizes, grade, surface finish, coatings, hardness, thread type, and industry specifications, etc. This data is essential in ensuring that common hardware is not substituted or exchanged due to lack of definitive information.

9.4.5.7 Price: The cost for the Government to purchase the Unit of Issue provisioned

9.4.5.8 Unique modifications by the end item manufacturer

9.4.5.9 Identification of parts proprietarily manufactured specifically for the end item manufacturer

9.4.6 The Contractor shall provide screened part numbers for all parts on EDFP to include the original equipment manufacturer (OEM), additional vendor part numbers, and additional available sources of supply. The Contractor shall make best efforts to ensure that parts have a US-based source of supply identified.

9.4.7 After the Government approves each drawing as being suitable for National Stock Number (NSN) assignment; the drawings shall be submitted on a Compact Disk-Read Only Memory (DVD) in Adobe Acrobat .PDF file. A separate file is required for each drawing. The DVD shall include a cross reference list that identifies the part number, drawing number, PLISN, and file name for each drawing. The naming convention for each drawing file shall be: PCCN-PLISN Part Number EDFP Version# - Program Name - Date. The drawing package should be in PLISN sequence. This will reduce the amount of space required to store the Technical Data Package and reduce the number of copies to a single electronic copy.

NOTE: All new or revised drawings and associated lists or parts and assemblies shall be prepared and submitted in PDF. Any drawing resubmissions shall use the same naming convention with an update to the Version Number.

9.4.8 EDFP shall be marked in such a manner as to identify the manufacturers proprietary rights (limited or unlimited). The Contractor shall be responsible for advising the Government of any restrictions imposed by the source of the documentation regarding the release of data. Data categorized as Commercial in Confidence shall not be released outside the Government without the written consent of the source.

9.4.9 In order to ensure clarity on the conformance to minimization of hexavalent chromium (see C.9.1.7.), the Contractor shall annotate on every EDFP submitted the following statement:

To the maximum extent practical with the exception of where there is no known replacement, Asbestos, radioactive materials, hexavalent chromium (electroplating and coatings), cadmium (electroplating), or other highly toxic or carcinogenic materials (as defined in 29 CFR 1910.1200) shall not be used in the manufacture or assembly of this component. To the maximum extent practical with the exception of where there is no known replacement, Class I and Class II Ozone Depleting Substances shall not be used.

## 9.5 Foreign Sources of Supply Notice (CDRL A026):

The Contractor shall make best efforts to ensure that parts have a US-based source of supply identified. The Contractor shall document any items that do not have a US-based source of supply and attached written confirmation from the foreign company if they will sell to the US Government to the EDFP; this notice must also include their Government sales representative name and contact information.

## 9.6 Certification of Green/Clean Parts (CDRL A027):

For both PPS and EDFP, the Contractor shall attach a letter from the manufacturer or Source of Supply certifying compliance to the requirements found within C.9.1.7.

## 9.7 Exception to Green/Clean Parts (CDRL A028):

If the Contractor identifies an item that does contain any of the above listed items (see C.9.4.9), the Contractor shall request an exception to the requirement for green/clean parts.

## 9.8 Green/Clean Parts NSN Split Proposal Report (CDRL A029):

The Contractor shall ensure that any items that have a PPS/existing NSN proposed, that the Source of Supply listed on the NSN certifies that the item is considered green/clean, as required by C.9.1.7. If the Contractor identifies an existing NSN and cannot confirm all sources of supply listed on the PPS are green, then the Contractor shall annotate this within the green/clean parts NSN split proposal report, as shown in Attachment A0004 (NSN Split). Any items identified on this report shall be called out specifically by the Contractor during the provisioning conferences.

## 10.0 PACKAGING, HANDLING, STORAGE AND TRANSPORTATION PACKAGING, HANDLING, STORAGE, AND TRANSPORTATION (PHS&amp;T)

10.1 Theory of Packaging for the M1270 Program: The Government intends to have a complete PHS&T portfolio developed for the M1270 program. This includes the development of packaging LMI data, Special Packaging Instructions (SPI), Equipment Preservation Data Sheets (EPDS), and Long Life Reusable Containers (LLRC). Due to the time frames involved with this effort, the Government will identify specifically what components require LLRCs to be fully developed, fit-up, tested, and test assets delivered to the Government. The Government has performed a Container Design Retrieval System (CDRS) search, using specifications found in MIL-STD-2073 and has found no

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viable container candidates for modification under this contract effort. As such, the Contractor shall fully develop LLRCs for the Engine, Transmission, and Transfer-Case (T-Case) found within the final configuration of the M1270 platform in accordance with C.10.11 below.

10.2 Packaging Data Development: The Contractor shall develop and provide packaging data for all items identified during the provisioning process with a Source, Maintenance & Recoverability (SMR) code beginning with P. Packaging data development priority shall be given to repairable items, NMWR/DMWR candidate items, Line Replaceable Units classified as a Special Group Item. Packaging shall be developed in accordance with MIL-STD-2073-1D and each P-coded item shall be classified as a selective group item or special group item. Contractor shall provide facilities, equipment, materials, and provisioned items for packaging development. The Contractor shall complete verification and provide support data with each data submittal. Validation support data shall include item drawings and copies of any applicable Material Safety Data Sheets for Hazardous Material items. Items with assigned Contractor and Government Entity (CAGE) Codes of: 1T416, 21450, 80204, 96906, 10060, 24617, 80205, 99237, 80244, 81343, 81346, 81348, 81349, 81352, 88044, 05047 are excluded from packaging data development.

10.3 Item Classification: Each provisioned P-coded item shall be classified as a Selective group item or a Special group item IAW MIL-STD-2073-1D and paragraphs C.10.5.

10.4 Selective Group: Items classified as Selective group items shall not have a unit pack weight exceeding 40 pounds and shall not have a dimension greater than 40 inches. In addition, the unit pack length and girth combined will not exceed 84 inches. A Selective group item must not require disassembly for packaging. Reconfiguration for packaging of Selective group items is limited to folding or coiling. Items will not be classified as Selective if they are repairable, recoverable, contain hazardous material, or if assigned a shelf life. Packaging data output for Selective group items is in the form of LMI Coded Data Products (see C.10.6).

10.5 Special group: Items classified as Special group items often require sketches, figures, or narrative instructions to describe packaging requirements. Items excluded from the Selective group will be classified as Special group items. This includes kits, sets and items of separate parts, items requiring disassembly, repairable items, items requiring special handling or condemnation procedures, items classified as hazardous material or hazardous goods in transport, items assigned a shelf life, electrostatic discharge sensitive items, fragile, sensitive, and critical items. Packaging data output for Special group items consists of Special Packaging Instructions (see C.9.5) and LMI Coded Data Products (see C.10.6).

10.6 Packaging Logistic Management Information (LMI) Coded Data (CDRL A030):

The Contractor shall develop LMI packaging data for each P-coded Selective and Special group item and provide for the entry of information to the Governments data repository. At the Contractors request, the Government may provide a MS ACCESS application that provides data formatting and edit features for coding of packaging LMI data products. The Contractor shall develop, maintain and update packaging data IAW MIL-STD-2073-1D and CDRL A030 including Attachment A0005 (Packaging Data Products), and Attachment A0006 (Incoming Transaction Format).

10.7 Special Packaging Instructions (SPI) (CDRL A031):

The Contractor shall develop a SPI for each item classified as a Special group item. Figures and narrative data shall be developed to describe the form, fit, and function of packaging in sufficient detail for production. SPI format shall be in accordance with MIL-STD-2073-1D.

10.8 Validation Testing of Packaging: The Contractor shall conduct validation testing for each item classified as a Special group item. Validation testing of Special group items shall be in accordance with ASTM D 4169 (Standard Practice for Performance Testing of Shipping Containers and Systems) Distribution Cycle 18, Assurance Level I, with Acceptance Criterion 3 (product is damage free and packaging is intact). Validation testing may be limited to Test Schedule A and Test Schedule F. Replicate testing and climatic conditioning are not required. Each SPI submitted shall have a packaging test report including photographs. Photographs shall show the product before and after testing and that the product is undamaged. Packaging test reports shall be submitted concurrently with SPI submittal, and packaging LMI data products for the Special group items. The Contractor shall provide a Validation Test Report (CDRL A032).

10.9 Equipment Preservation Data Sheets (EPDS) (CDRL A033):

10.9.1 EPDS Requirements: Contractor shall develop EPDS for the M1270 vehicle. Contractor shall include requirements for disassembly procedures to meet clearance requirements for land, air, and sea shipments. Procedures shall ensure an option for drive-on/drive-off capability. Packaging requirements for BII and COEI shall be developed by the Contractor. BII shall be packed separate from COEI. HAZMAT (if applicable) will be packaged and shipped separately in accordance with CFR Title 49. For the purposes of preparing the vehicle for shipping, the Contractor shall ensure the BII and COEI is packaged to deter pilferage and shall not interfere with lifting, tie down or other transportation handling. The Contractor shall develop the EPDS to reflect the system's shipment configuration, weight, or transportability. The Contractor shall also provide revisions to the EPDS for each provisioning change affecting packaging of BII or COEI. Format of EPDS shall be in accordance with MIL-STD-3003.

10.10 Validation of EPDS: The Government will determine if all or selected portions of the Equipment Preservation Data procedures shall

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be validated to determine the adequacy of the vehicle preservation procedures. Primary considerations will be given to the complexity and/or uniqueness of the process and/or materials involved. The Contractor shall notify the Government sixty (60) days prior to start of Contractors validation with a detailed EPDS validation schedule to be provided 14 days prior to the commencement of the EPDS validation. The Government must witness the Contractors validation. The Contractor shall provide a EPDS Validation Report (CDRL A034).

## 10.11 Long Life Reusable Containers (LLRC):

10.11.1 Requirement: The Government expects the Contractor to fully develop LLRCs as indicated in the Theory of Packaging (see C.10.1). The Contractor shall develop LLRCs in accordance with SAE APR 1967A, with the revisions and exceptions listed in Attachment A0007 (Revisions and Exceptions).

## 10.11.2 LLRC Development:

10.11.2.1 The containers shall only be fabricated from steel, aluminum or composite material and must be Chemical Agent Resistant Coatings (CARC) finished in accordance with MIL-DTL-53072. The use of wood in the design and fabrication of these reusable containers is forbidden except for the container skids.

## 10.11.2.1.1 Material Restrictions.

Asbestos, beryllium, cadmium, Class I and Class II Ozone Depleting Substances, hexavalent chromium, lead, mercury, radioactive materials other Group 1 Agents classified as carcinogenic to humans by the International Agency for Research on Cancer (IARC) Monographs, shall not be present in or on any delivered LLRC materials, including alloys, required for LLRC operation and sustainment, or used in LLRC manufacture and assembly processes. These restrictions shall apply to all components, parts, and materials provided under this contract, including items purchased through a subcontractor or supplier, COTS components, OEM parts, and manufactured parts.

The following materials may be used without prior approval from the Government:

- CARC primers and topcoats
- Steel containing up to 0.35 % lead by weight
- Aluminum containing up to 0.4 % lead by weight
- Copper and Brass alloys containing up to 4 % lead by weight
- Trace amounts of identified restricted materials contained in base materials and/or alloys. For the purposes of this contract trace amounts are defined as <0.1% by weight for carcinogens and <1% by weight for all other materials.

10.11.2.1 The containers shall only be fabricated from steel, aluminum or composite material and must be Chemical Agent Resistant Coatings (CARC) finished as defined in MIL-DTL-53072A. The use of wood in the design and fabrication of these reusable containers is forbidden except for the container skids.

10.11.2.2 The containers shall incorporate energy absorbing systems, dehumidification systems, and other special features to ensure protection of the item. The containers shall be capable of being repaired and/or retrofitted to prolong container service life or modified to adapt the reusable container for shipment of the items other than for which it was originally intended. Attachment A0008 (TB 9-289, Technical Bulletin for the Reconditioning of Type I and Type II Reusable Metal Containers), shall be used as a guide.

10.11.2.3 The container size shall be of the minimum, consistent with the size, weight, and the performance requirements of SAE ARP 1967A with the exceptions listed in Attachment A0007 (Revisions and Exceptions). During the life of the container, it will experience multi-modal transportation (truck, rail, air, and ocean) so size considerations shall include all modes of transportation.

10.11.2.4 Concept Drawing: The Government will furnish six 19207 drawing numbers for container concept drawings at the Start of Work meeting. The Contractor shall use two of the furnished 19207 part numbers for creating the concept drawing for each component. One 19207 part number will be assigned to each concept drawing. Each concept drawing will include a Bill of Material that will identify the part number of the component being containerized and the 19207 part number assigned to the container. The Contractor shall submit a concept drawing for review and acceptance for each component: Engine (CDRL A035), Transmission (CDRL A036), and T-Case (CDRL A037). Once the concept has been accepted by the Government, the Contractor shall develop and build a prototype container to be tested for each of the three items. Upon Government acceptance of the final design, the top level drawing of the container shall be released with a 19207 container drawing number assigned to it and the accompanying Bill of Material. A second 19207 container drawing shall be assigned to the "item in container". Therefore six distinct 19207 part numbers shall be provided by the government after acceptance of the prototype design.

10.11.2.5 Prototype Container and Test Plan: The Contractor shall construct a prototype container and shall submit for approval a test plan for each component: Engine (CDRL A038), Transmission (CDRL A039), and T-Case (CDRL A040). Testing shall be in accordance with SAE ADP 1967A and Attachment A0007 (Revisions and Exceptions).

10.11.2.6 LLRC Fit-Up: Containers developed for this effort must be fitted to the component with documentation provided to the US Government in a Container Fit-Up Validation Report for each component: Engine (CDRL A041), Transmission (CDRL A042), and T-Case (CDRL A043). The Government expects that the container designer will be a full participant in fit-up of the containers.

10.11.2.7 LLRC Testing: The Contractor shall notify the Government sixty (60) days prior to conduct of LLRC testing for each component.

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The Contractor shall conduct LLRC testing in accordance with the approved test plan. The Government expects that the container designer will be a full participant in testing of the containers. The Government must witness LLRC tests for each container; the Contractor shall deliver a complete test report covering the component tested: Engine (CDRL A044), Transmission (CDRL A045), and T-Case (CDRL A046).

10.11.2.8 LLRC TDPs: Upon receiving USG approval of a reusable container design test report, the Contractor shall develop and deliver a complete Level III Technical Data Package (TDP) for the reusable shipping and storage container tested: Engine (CDRL A047), Transmission (CDRL A048), and T-Case (CDRL A049). The TDP shall include engineering drawings and associated lists in sufficient detail to provide for a competitive procurement. The Government will supply part numbers and/or drawing numbers for the new parts and drawings. Engineering drawings shall comply with ASME-Y14.100 2000 and ASME-Y14.5M 1984. Configuration management data shall comply with MIL-HDBK-61. Electronic drawing file format shall be PRT, IGES, or PDF.

**11.0 PUBLICATIONS****11.1 Technical Manual Development**

11.1.1 The Contractor shall utilize the analysis developed under this SOW to determine the operational, maintenance, and support functions of the system. The Contractor shall ensure that all logistics documents created under this effort cross-walk to each other and that there is consistency between all products. The Contractor shall use the MAC (see C.6.12) as the baseline for creation of the Technical Manuals.

11.1.2 The Contractor shall create volumes that range from 1,000 to 1,200 pages. The page count can be negotiated for volume breaks between the Government and the Contractor to ensure good flow of the manual, if required. An example of the TM Volume Designation would be TM\~9\\_2355\\_XXX\\_10\\_1. The RCV Style Guide provides instructions on how to divide the troubleshooting or maintenance chapter if it should happen to fall between volumes.

11.1.3 The Contractor shall prepare and deliver Electronic Technical Manual (ETM) and electronic files in accordance with Attachment A0009 (General Publications).

11.1.4 In accordance with MIL-STD-40051-2B, the TM Suite shall be revised to contain:

11.1.4.1 A Warning Summary

11.1.4.2 An Alphabetical Index

11.1.4.3 GPO Style Guide-Approved Abbreviations

11.1.4.4 An Option 2 RPSTL Kit Section

11.1.5 The TM Suite shall not contain:

11.1.5.1 Bulleted Paragraphs in Warnings, Cautions, or Notes

11.1.5.2 Warning Icons

11.1.5.3 Abbreviated Warnings

11.1.6 The Contractor shall submit a written request to the Government to include any MIL-STD\\_40051\\_2B optional content not identified in C.11 or Attachment A0010 (TM Matrix) where the necessity for such optional content may arise during the development of these TMs.

11.1.7 The Technical Manuals (TMs) shall be developed in accordance with MIL-STD-40051-2B, guidance found in MIL-HDBK-1222E, the Route Clearance Style Guide, Attachment A0012 (Document Type Definition and Style Sheets), and Attachment A0009 (General Publications instructions).

11.1.7.1 The Contractor shall develop a Hand Receipt (-HR) in accordance with MIL-PRF-32436.

11.1.8 The Contractor shall develop Lubrication Orders (LOs). The LOs shall be developed in accordance with MIL-STD-40051-2B.

11.1.9 The Contractor shall include Long Life Reusable Container (LLRC) (see C.10) information within the field maintenance procedures. Items that are identified to have an LLRC shall address the container and procedures needed. The field maintenance manual shall be considered incomplete if this information is missing.

11.1.10 The Contractor shall incorporate the Interrogation Arm (IA) A-Kit and the Objective Gunners Protective Kit (OGPK) items into the technical documents. The Contractor shall coordinate with the Government and the IA Contractor to identify the IA A-Kit and provide feedback to the Government regarding design interface between the IA and the M1270. This will require the Contractor and the IA Contractor to coordinate information under the Governments guidance and oversight to ensure all aspects of the IA A-Kit are included in the provisioning, TMs, and logistics documents.

11.1.11 The Contractor shall develop all work packages found within the Technical Manuals and Component NMWRs with an attempt to utilize tools and equipment contained in the authorized tool sets/kits, minimizing use of special tools to support the end item. Contractor shall notify the Government when any tools or equipment beyond the authorized tool sets/kits that the Government is providing to the Contractor as GFE (See C.3.2.3), are required. The Contractor shall use to the maximum extent possible tools already available within

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the standard supply system when a tool is not found in the authorized tool sets/kits that the Government is providing to the Contractor as GFE (See C.3.2.3). The Contractor shall utilize commercial standards for certification of accuracy on Test, Measurement, and Diagnostic Equipment (TMDE) (see C.7.1) to ensure proper TMDE is called out within the TM/NMWR (example: torque wrenches). Diagnostic Equipment Fault Codes/Readings must show a direct correlation between the fault codes/readings and the symptom based TM troubleshooting procedures. Steps directed by diagnostic software will not require duplication in the Contractor's symptom-based TM troubleshooting procedures.

## 11.1.12 Copyright Release (CDRL A050):

To the maximum extent practical, the Contractor shall furnish unrestricted copyright releases for all TMs, in accordance with AR 25-30. The Contractor shall ensure that Government has the right to use, copy, and distribute the TMs, ETMs, and electronic data files delivered under this contract, electronically and in hard copy as the Government deems necessary. When the Contractor uses commercial data which covers a subcontractor's component(s) or portion thereof, and the subcontractor's data contains copyrighted material, to the maximum extent practical, the Contractor shall be responsible for obtaining a copyright release from their subcontractor and furnishing such release to the Government. The copyright release shall be written for the US Governments use and shall not prohibit duplications, release, website publication, etc. The Government, at its discretion, will post the final DA-authenticated TMs on the Internet for the Soldiers access. TMs shall not contain any copyright notices that are not in accordance with MIL-STD-40051-2B. The Government understands that the Contractor cannot guarantee that all vendors and subcontractors will supply Copyright Release.

## 11.2 Source Material

Notwithstanding Trade Compliance restrictions, Technical Data restrictions or security classifications, all source data developed exclusively with Government funds shall be delivered with unlimited rights to the Government for reproduction, use, and distribution.

The Contractor shall package and deliver all source material, defined as operating plans, standard procedures, computer documents and residual material, source codes, computer disks, computer tapes, and all other media containing digital files developed to fulfill the requirements of this contract to accompany each technical manual FRC, that are deliverables under this contract. All artwork, sketches, photographs, line art, modeling, schematics delivered under this contract shall be turned over concurrent to FRC submission. The Contractor shall grant the Government unlimited right to any and all data/products under this effort that are developed and funded entirely by the Government. All other source data provided during the course of performance of this contract that are not deliverables, are owned by the Contractor and shall not be redistributed to anyone outside the Government.

## 11.3 Manuals required - The Contractor shall develop the following manuals in support of Conditional Materiel Release (CMR):

TM 9-2355-435-10, Operator Manual, M1270 including Robotic Deployment System (RDS), CDRL A051

TM X-XXXX-XXX-10, Operator Manual, Objective Gunners Protection Kit (OGPK), CDRL A052

TM X-XXXX-XXX-13&P, Operator, Field Maintenance and RPSTL Manual, Chevron Armor Solution Kit, CDRL A053

LO 9-2355-435-13, Lubrication Instruction, CDRL A054

TM 9-2355-435-10-HR, Hand Receipt, CDRL A055

## Manuals required The Contractor shall develop the following manuals in support of Full Materiel Release (FMR):

TM 9-2355-435-23, Field Maintenance Manual including RDS, M1270, CDRL A057

TM 9-2355-435-23P, Field Maintenance RPSTL Manual including RDS, M1270, CDRL A058

TM X-XXXX-XXX-23&P, Field Maintenance and RPSTL Manual, Objective Gunners Protection Kit (OGPK), CDRL A059

NMWR X-XXX-XXX, M1270 Component NMWRS with RPSTL Manual, CDRLs A062A (Engine), A062B (Transmission) and A062C (T-Case)

## 11.3.1 The Contractor is responsible for incorporating National Stock Numbers (NSN) and NSN Cross-Reference Lists into the RPSTLs.

11.3.2 The Contractor shall ensure that the configurations are referenced in the manual by a serial number break-out. Tasks that vary between the Configurations shall have the serial numbers referenced for tasks unique to each configuration.

## 12.0 NATIONAL MAINTENANCE WORK REQUIREMENT (NMWR)

12.1 The Contractor shall develop a NMWR Candidate List/Data Summary (CDRL A061). The NMWR candidate list should consist of repairable assemblies (e.g. Engine, Transmission, Transfer, Axle). The Contractor shall develop a NMWR candidate list based on the MA (C.6.10), the Supportability Analysis (C.6.2), and the LORA (C.6.11). Specific requirements for the candidate list are identified within Attachment A0013 (NMWR Candidate).

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12.2 The Government will use the data summary to compare the cost to buy new versus the cost to rebuild, establish inventory levels, and determine how often this item will need to be repaired. The Government will review this data and finalize the NMWR candidate listing to identify which items are to have NMWRs developed.

## 12.3 NMWR Development

12.3.1 NMWRs shall be developed in accordance with MIL-STD-40051-2B and guidance found in MIL-HDBK-1222E and the final and fully signed AMS Route Clearance Style Guide provided as GFI.

12.3.2 NMWRs shall include preservation, packaging, and marking requirement. The packaging requirements for all components shall be in alignment with Equipment Preservation Data Sheets (See EPDS, C.10.9), LLRCs (See C.10.11), Special Packaging Instructions (see SPI, C.10.7), or coded packaging data developed under this effort.

12.3.3 Packaging, marking for shipment and storage, heat treatment, and working of wood packaging materials shall be included in each NMWR work package as necessary. Reference shall be made to the preparation for storage and shipment procedures, including packaging and administrative storage in the applicable instruction work package.

12.3.4 NMWR Mandatory Replacement Parts (MRP) and Special Tools: The Contractor shall purchase and ensure that required Mandatory Replacement Parts (MRP) and Special Tools are procured and on hand at the required verification site 30 days prior to the start of verification.

## 12.3.5 Component NMWRs (CDRLS A062A, A062B, A062C):

The Contractor shall provide inspection procedures, overhaul inspection procedures, mandatory replacement parts list, final testing requirements, and any refurbishing instructions for the Engine, Transmission and Transfer Case NMWRs. The Government will provide a list of the final testing equipment and services available at Red River Army Depot related to the final testing of the Engine, Transmission and Transfer Case. Each identified component will receive its own CDRL.

## 13.0 CONTRACTOR VALIDATION

13.1 The Contractor shall conduct a validation of the PTMs delivered under this effort, per DA PAM 25-40. This validation shall be conducted to ensure accuracy, completeness, and compatibility to the rest of the documentation developed under this effort. This validation shall be conducted to ensure, accuracy, completeness, compatibility, and that all tasks can be performed as written throughout the documentation developed under this effort. The Contractor shall perform a 100% Validation, with 100% PMCS and troubleshooting performed hands-on. The rest of the material developed shall be a combination of hands-on live testing and desk-top review to ensure that the PTMs are fully operational. The Government will evaluate the operation, navigation and structure of PTMs submitted under this effort. The Contractor shall perform a 100% review of the ETM to ensure that it meets contract requirements. The Contractors shall ensure that all TMs and NMWRs are properly validated.

13.2 To ensure the quality of the information provided (C.4.6), the Contractor shall not have the author of the instructions/work package be the same person who performs the validation procedure (see C. 4.7).

13.3 The Contractor shall deliver Validation Plans (CDRLs A063A, A063B, A063C, A063D.1, A063D.2 and A063D.3) for all Technical Manuals under this PWS. The Government has the right to review all validation records at any time, and assess the Contractors validation processes. The Government reserves the right to witness the entire performance of the Contractors Validation. Once the Validation Plan has been submitted the Contractor shall not adjust its schedule without at least 14 days prior notice to the Government. If the Contractor moves events/procedures within its validation schedule without proper notification, the Contractor shall re-perform Validation activities at the Governments discretion at no additional cost. The Contractor shall notify the Government thirty (30) days prior to start of the Contractors CMR related validation with a detailed validation schedule to be provided 14 days prior to the commencement of the CMR validation phase. The Contractor shall notify the Government sixty (60) days prior to start of Contractors FMR related validation with a detailed validation schedule to be provided 14 days prior to the commencement of the FMR related validation phase.

13.4 In order for the Contractor to move beyond the validation phase of this effort, the following exit criteria shall be met. The Government will provide notice to submit the PTM for LD after assessment of the below criteria:

13.4.1 Intentionally Left Blank.

13.4.2 A complete validation report (CDRL A064A, A064B, A064C, A064D.1, A064D.2 and A064D.3) provided to the Government.

13.4.3 Copies of critical task (see C.16.2.1) validated WP mark-ups and tracking sheet; as well as any additional copies of validated WPs identified by the Government

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13.4.4 A certificate of validation (CDRL A065A, A065B, A065C, A065D.1, A065D.2 and A065D.3)

13.4.5 Government approved quality assurance plan and process map (C.4.6)

**14.0 LOGISTICS DEMONSTRATION (LD)**

14.1 In accordance with Army Regulation 700-127, Chapter 5, and paragraph 5-16, the Government is required to conduct a LD to demonstrate the supportability of the end item. Before entering into LD, the Contractor shall have successfully exited Validation (see C.13), confirmed that the hardware being used is in the latest approved Final Configuration, and that all special tools have been purchased and are available to support the event. The Contractor shall provide support for all scheduled LDs in accordance with the Government issued Log Demo Plan.

14.2 Logistics Demonstration (LD) Schedule: The initial Logistics Demonstration for the Operator Technical Manual with RDS (-10), the OGPK (-10), and the Chevron Bar Armor Solution Kit (-13&P) will be conducted prior to Operational Test (OT). The LD for the Maintenance and Parts Technical Manuals (-23/-23P) and the OGPK Technical Manual (-23&P) will be conducted following the initial LD, which may run concurrent to OT. During the initial phase, the initial LD and OT will be conducted prior to verification. The second phase of Logistics Demonstration will be followed by the second phase of the Verification. The SSP will be configured to meet the current configuration and be delivered to the Government test sites 30 days prior to the start of LD. The Government shall provide the Contractor with a draft LD plan, 105 days prior to LD and an approved and final LD plan no later than 30 days prior to the LD that outlines the event scheduled for each phase of the Logistics Demonstration.

14.3 Government LD Plan (LDP): The scheduled start of the LD is dependent on the acceptance of the Contractor's validation quality and Contractor Preliminary Technical Manual (PTM) submittal. The Government LD and Government Verification are separate events. At the LD, the Government will utilize the Technical Manuals delivered in accordance with C.11. The Contractor is required to support the Government's Log Demo by performing the tasks defined within the LDP. The Contractor shall receive a draft LDP including schedule, start date, and time of Log Demo 105 days prior to start of both the CMR and FMR LDs. The LDP will outline the tests, fault insertions, and demonstrations that will take place during each phase of the Logistics Demonstration. This will allow time for the Contractor to prepare all support materials required for each phase of the Logistics Demonstration, including the Fault Insertion Plan (CDRL A105). MPP Reviews 1, 2 and 3 will be the forum to facilitate Government review and acceptance of new M1270 Technical Data for Government modified components that are the result of Government ECPs including schematics. Preferential schematic changes identified during Verification will be considered additional scope. The Demonstration tasks for each phase of the Logistics Demonstration will be identified by CASCOM and TACOM will be reviewed and verified to determine the adequacy of the LD as outlined in AR 700-127:

14.4 System Support Package (SSP) Evaluation: The LD also evaluates the adequacy of the System Support Package (SSP) and access the supportability engineered and established for the system such as; maintenance planning, maintenance concept, task allocation, troubleshooting procedures, repair procedures, its peculiar support equipment, technical publications, Logistics Management Information (LMI) data, training and training devices, Human Factors Engineering (HFE) aspects, MANPRINT related to operator and maintainer tasks, TMDE, embedded diagnostics/prognostics, test program sets, diagnostic procedures in the technical manual, common tools, special tools, spares and/or repair parts list. The Contractor shall validate all PTMs prior to any LD and must be sufficient for use by representative Soldiers during operation, maintenance, and troubleshooting. Upon USG task determination the Contractor shall have to insert system faults. The Contractor is responsible to insert designated faults on the platform that are non-destructive as outlined within the LD Plan.

At minimum, the Contractor shall provide the following support:

1. One Technical Writer, who will coordinate with Government Publications to take notes of all corrections required and answer any questions about TM development per team.
2. One Technical expert on the end item who will be available to answer questions about the equipment per team.
3. Provide the necessary support as identified in the LOGDEMO plan during each phase of the Logistics Demonstration.
4. The Contractor shall provide the required special tools and test equipment identified in the TM.
5. The Contractor shall make best efforts to repair the end item within 48 hours during each phase of the LOGDEMO if it is damaged or not working. Should more than 48 hours be required to make the repair, the Contractor shall notify the COR to negotiate a reasonable turnaround time.
6. The Contractor shall provide the required BII and COEI support each phase of the LOGDEMO as required.
7. The Contractor shall support the Government Log Demo as required by the Log Demo Plan. The Log Demo Plan will outline the support (to include personnel, parts, EDIL, tools) the Contractor is required to provide to the Government. The Log Demo plan will identify the standard Government rejection criteria and the turn-around time for WPs reviewed during Log Demo (note: the Contractor shall plan to return No Go WPs within 48 hours from the close of the Log Demo business day. Any extensions in time for the return of No Go WPs beyond

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48 hours from the close of the Log Demo business day will be provided to the Government Publications Manager or Maintenance Manager for concurrence.

## 14.5 Fault Insertion Plan (CDRL A105):

The Contractor shall develop a fault insertion plan for the government review. The fault insertion plan will support the execution of the Logistics Demonstration (LD). The Contractor shall identify faults that can be inserted (non-destructive) to prompt troubleshooting symptoms, errors, system fault detection and internal diagnostics that lead to detection, isolation, and corrective actions by Soldier operators and maintainers. The diagnostics/prognostics portion of the Logistics Demonstration (LD) will address 100 percent of all known critical faults, introduced into the equipment individually according to the failure modes, effects, and criticality analysis (AR 700-127, para 5-16). MIL-HDBK-470 will be used as a reference to determine fault insertion sample size and methodology.

The non-destructive inserted faults shall not damage end item, any components and associated equipment. The following examples (not all inclusive) of possible faults include cable assemblies (shorted or open connector pins, for example), disconnected cables, faults induced through the use of break-out box, or actual faulty components. The Contractor shall include the rationale for faults based on examination of factors such as task complexity, task criticality, component cost, probability of occurrence in relationship of the maintenance analysis and man-hour estimates for Soldiers to perform detection, isolation and repair of actions (CDRL A105). A break-out box shall only be utilized to induce a fault during the Logistics Demonstration. The utilization of a break-out box shall have no further use and shall not be documented or mentioned within the Technical Manuals or Training documentation that are to be delivered to the Government as a result of this Solicitation

14.6 As a result of the Logistics Demonstration and in accordance with para C.3.4.3.5, the Contractor shall make all required corrections to the Technical Manuals (TMs) and document any discrepancies between the Government Task Data Sheets and what the Contractor incorporates into the TMs (CDRL A066A).

## 15.0 GOVERNMENT VERIFICATION

15.1 In accordance with AR 700-127 and DA PAM 25-40, the Government is required to verify all publication deliverables for usability, accuracy, and safety. The Government will conduct verification, in accordance with the Government published Verification Plan. The Verification Plan is authored by the TACOM Publications Manager, who will coordinate with the TACOM Maintenance Manager and TRADOC SMEs to ensure the plan covers all aspects of the manual. The plan will describe:

1. What is to be verified and when/where the verification is to take place during each phase of the Verification.
2. List of participants and their roles/responsibilities during each phase of the Verification
3. How the contents will be verified (methods to be used for each type of content) during each phase of the Verification
4. Step by step conduct of procedural information (WP) performance during each phase of the Verification
5. Support required by the Contractor during each phase of the Verification.

15.2 Performance of the field level PTMs verification will be either hands-on verification by user representatives or by desk-top review. PMCS is required to be performed 100% hands-on, 100% of schematics are required to be assessed on the end item; all other tasks will be at the Publications Managers discretion in coordination with TRADOC. MPP Reviews 1, 2 and 3 will be the forum to facilitate Government review and acceptance of new M1270 Technical Data for Government modified components that are the result of Government ECPS including schematics. Preferential schematic changes identified during Verification will be considered additional scope. Government packaging personnel will participate in the verification of the EDPS.

15.3 Performance of the NMWR verifications will be by hands-on verification by US Army Depot personnel. Government packaging personnel will participate in the verification of the EDPS.

15.4 The Government relies on complete, careful editing and review of all PTMs by the Contractor. If there are indications that the Contractor has performed incomplete or inadequate QA Reviews, insufficient Validation, or has changed the configuration without Government ECP approval, the Government may elect to reject or return products for rework and will perform additional reviews on reworked product per Para C.3.4.3.5.

15.5 The Contractor shall support the Government Verification as required by the Verification Plan. The Verification Plan will outline the support (to include personnel, parts, EDIL, tools) the Contractor is required to provide to the Government. The Verification plan will identify the standard Government rejection criteria and the turn-around time for WPs reviewed during Verification (note: the Contractor shall plan to return No Go WPs within 48 hours from the close of the Verification business day . Any extensions in time for the return of No Go WPs beyond 48 hours from the close of the verification business day will be provided to the Government Publications Manager or Maintenance Manager for concurrence. Entrance Criteria for each phase of Verification is:

1. Acceptance of all Validation Exit Criteria (see C.13. 4)

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2. Successful Completion of the required phase of the LD (see C.14)
3. An updated PTM incorporating all comments of the required phase of the LD
4. An updated TMQA (see C.4.8)
5. EPDS Validation Report (see C.10.10)

15.6 For the Maintainer and Parts Manuals (-23/23P) and the OGPK (-23&P), the Government will provide the Verification Plan, minus the appendixes, at the 4th MPP (approx. 176 DAC). The Government plans for the Verification to last 6 9 months and will be at the Contractors facility in London, Ontario, Canada. The Contractor shall host the Government and the Original Equipment Manufacturer (OEM) of the Interrogation Arm at their London, Ontario facility. The Contractor shall provide desks, chairs, facilities and internet access at their facility where the Government executed Verification will occur. The duration of the Verification is subject to extension based on the quality of the product provided by the Contractor, as defined in Para C.3.4.3.5, and may be extended at no additional cost to the Government. The Government will ensure that the Interrogation Arm Verification that will be executed by the Government together with the OEM of the Interrogator Arm will not impede the execution or the progress of the M1270 Verification related to the Maintainer and Parts Manuals (-23/23P) and the OGPK (-23&P). Any extensions to the Phase 2 (FMR) Verification beyond 9 months, that are the result of Interrogation Arm Verification delays, will be subject to Cost and Schedule negotiations between the Government and Contractor.

For the Phase 1 (CMR) Government Verification of the Operators Manual (-10) , M1270 including Robotic Deployment System (RDS), Operators Manual (-10) for OGPK and 13&P for Chevron Armor Solution Kit that also includes the Verification that will be executed by the Government together with the OEM of the Interrogator Arm on the Interrogator Arm Technical Manual deliverables, the Verification will be conducted exclusively on one (1) of the two (2) M1270 Logistics Vehicles that are being supplied to the Contractor as GFE (see C.3.2.3). The Government understands that the second GFE M1270 Logistics Vehicle is required by the Contractor to maintain the schedule related to the Phase 2 (FMR) Technical Publication deliverables whose development continues during the Phase 1 (CMR) Verification.

During the Phase 1 (CMR) Government Verification, the Government will ensure that the Interrogation Arm Verification that will be executed by the Government together with the OEM of the Interrogator Arm will not impede the execution or the progress of the M1270 Verification related to the Operators Manual (-10), M1270 including Robotic Deployment System (RDS), Operators Manual (-10) for OGPK and 13&P for Chevron Armor Solution Kit. Any extensions to the Phase 1 (CMR) Verification beyond 1 month, that are the result of Interrogation Arm Verification delays, will be subject to Cost and Schedule negotiations between the Government and Contractor.

15.7 For the NMWR PTMs, the Government will provide the Verification Plan, minus the appendixes, upon approval of the NMWR candidate list (see C.12.1). The Government plans for each component NMWR Verification to run 5 days/week, 8 hours/day and last for 2 weeks per NMWR component (Engine, Transmission and Transfer Case) and the component NMWR verifications will be held at a Red River Army Depot, Texas. Correction of errors shall be per Para C.3.4.3.5. The duration of the Verification is subject to extension based on the quality of the product provided by the Contractor and may be extended at no additional cost to the Government.

15.8 The Government will verify that the MAC, RPSTL, and WPs all agree and support each other. Alignment between all manuals and information contained within the book is critical to ensuring accuracy. The intent of verification is to prove out the usability and accuracy of the TM/NMWR content. Maintenance tasks must be accurate, usable, and can be performed as written. The Government will ensure that the user is able to locate component on which a task is to be performed; illustrations and callouts correctly support the procedural step (from operator/maintainer point of view); that required warnings, cautions, and notes are included, placed correctly, and are accurate.

15.9 The RPSTL will be fully assessed for the following:

1. P coded items are assigned an NSN
2. Indexes are complete and accurate
3. Make from items list the correct bulk material
4. Next higher assembly can be identified for XA coded items
5. Useable on codes (if applicable) are accurate
6. SMR K- coded items identify the kit in which they are contained
7. Brackets in illustrations are consistent with indentures in part list
8. Only items submitted on the LSA-036 report are included in the RPSTL
9. Items outlined in the RPSTL align with information provisioned in the LSA-036 report
10. There are no missing components
11. The illustrations clearly identify the parts

15.10 At minimum, the Contractor shall provide the following support for 2 Government Verification teams:

15.10.1. One Technical Writer, who will take notes of all corrections required and answer any questions about TM development per team during each phase of the Verification

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15.10.2 One Technical expert on the end item who will be available to answer questions about the equipment per team during each phase of the Verification.

15.10.3 Provide the necessary unique support items and services to manage, support, operate and maintain the end item during each phase of the Verification including EDIL, unique repair parts, and mandatory replacement parts subject to damage or destruction during the course of the verification. These items will be made available throughout each phase of the Verification.

15.10.4 The Contractor shall provide the required special tools and test equipment identified in the TM.

15.10.5 The Contractor shall repair the end item during each phase of the Verification if it is damaged or not working.

15.10.6 The Contractor shall provide the required BII and COEI to support each phase of the Verification as required.

15.10.7 The Contractor shall have the test LLRC containers that successfully passed LLRC testing shipped to the NMWR verification site.

15.11 The Contractor shall make all corrections to the Technical Manual and document any discrepancies between the Government Task Data Sheets and what the Contractor incorporates into the TM during each phase of the Verification (CDRL A066C).

**16.0 NEW EQUIPMENT TRAINING (NET) SUPPORT PACKAGE**

16.1 The Contractor shall develop a NET support package to support the M1270. The Contractor shall conduct training courses, as outlined herein, to train the M1270. The support package will cover system operation, controls, student guide, instructor guide, troubleshooting, maintenance required to safely operate and maintain the M1270. The Contractor shall develop New Equipment Training Support Package for both Operator and Field Level Maintenance in accordance with AR 350-1, TRADOC Regulation 350-70 (Army Learning Policies and Systems), and all TRADOC pamphlets 350-70-1 thru 350-70-6.

16.2 Training Program: The Contractor shall develop and conduct the M1270 training program in accordance with AR350-1, TRADOC Regulation 350-70 (Army Learning Policies and Systems) and all referenced supporting TRADOC pamphlets, MIL-PRF-29612B, MIL-HDBK-29612-1A, Parts 1 thru 4.

16.2.1 Critical Task List: The Contractor shall provide a Critical Tasks List (CTL) for both Operator and Maintenance Training. The Operator CTL shall include Operator/Crew tasks (A067); the Field Level CTL shall include Maintainer tasks (CDRL A068). The CTL shall be developed in accordance with AR 350-1, TRADOC Regulation 350-70 (Army Learning Policies and Systems) and (Chapter: Task Analysis and Task Development), and all TRADOC pamphlets 350-70-1 thru 350-70-6.

16.3 New Equipment Training (NET) Package: The Contractor shall develop and provide both an Operator (A069) and Field Level Maintainer NET Package/POI/TSP (A070). The NET Package format shall be developed in accordance with TRADOC Regulation 350-70. The NET Package shall include at minimum items identified on the Government approved CTL (see C.16.2.1); the Contractor can identify additional items for inclusion in the NET package. The Government will assess the NET Package for compliance with AR 350-1, TRADOC Regulation 350-70 (Army Learning Policies and Systems), and all referenced supporting TRADOC pamphlets, AR 385-10, and consistency with the technical manuals developed. Both the Operator and the Field Level Maintenance NET Package will consist of a Program of Instruction (POI) and Training Support Package (TSP) for the complete M1270.

16.4 Program of Instruction (POI) (OPNET: CDRL A071; FLMNET: CDRL A072):

The Contractor shall develop and provide the POI format in accordance with AR 350-1, TRADOC Regulation 350-70. The POI shall be developed in accordance with TRADOC Pamphlet 350-70-9 Chapter 4 and 5. POI shall include at a minimum 1) Outline of all training modules/lessons for all variants using the 2) Government approved CTL (C.16.2.1) to identify any potential training task 3) Recommended Training Aids, Devices, Simulation, Simulators (TADSS) to models, mock-up, actual components/parts task trainers, and Fault Inducement Kit (FIK) list to support fault Tracks identified 4) list of projected Fault Tracks from the Interactive Electronic Technical Manual (IETM) or Electronic Technical Manual (ETM) work packages to be used during Technical Training of the field Level Maintainer course, using MSD/ICE/Hydraulic/electric test equipment. 5) Training consumables 6) Special Tools and Test Equipment (STTE). 7) Training Support Requirements (Listing that identifies all materials and equipment needed to support a stand-alone training effort. The Government will assess the POI for compliance with AR 350-1, TRADOC Regulation 350-70 (Army Learning Policies and Systems), and all TRADOC pamphlets 350-70-1 thru 350-70-6.

16.5 Training Support Package (TSP): The Contractor shall develop and provide an Operator (A073) and Field Level Maintainer NET TSP (A074). The TSP format shall be in accordance with TRADOC Pamphlet 350-70-8. The TSP shall be developed in accordance with TRADOC Pamphlet 350-70-1 Chapter 6. The TSP shall be a complete, exportable package integrating training products, materials, and/or information necessary to train tasks depicted in the Government approved CTL (C.16.2.1), to include but not limited to; Instructor Guide (C.16.5.1), Student Guide (C.16.5.2), Media Package (Attachment A0014 (NET View Graphs)), Test (C.16.5.5), Test Key (C.16.5.5), Practical Exercise (C.16.5.6), Technical Training Course Material (C.16.5.3). The Government will assess the TSP for compliance with AR 350-1, TRADOC Regulation 350-70 (Army Learning Policies and Systems), and all TRADOC pamphlets 350-70-1 thru 350-70-6.

16.5.1 Instructor Guide: The Contractor shall provide an Instructor Guide for both the Operator (CDRL A075) and Field Level Maintainer

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(CDRL A076). The Instructor Guide is used by the Instructor during training, providing additional information, answers and clarification to assist in conducting the training event. The Instructor Guide shall align with the Government approved CTL (C.16.2.1) and the technical manuals. The Instructor Guide shall be formatted in accordance with TRADOC Pamphlet 350-70-2. The Instructor Guide shall also include the tests (C.16.5.5), view-graphs (Attachment A0014), blank course critiques, acronym list, and course training schedule, Practical Exercise (C.16.5.6), Technical Training Course Material (C.16.5.3)

16.5.2 Student Guide: The Contractor shall provide Student Guides for both Operator (CDRL A077) and Field Level Maintainer (CDRL A078). The Student Guide shall be formatted in accordance with TRADOC Pamphlet 350-70-2. The Student Guide shall align with the Instructor Guide; the Student Guide is provided to all student attendees as a workbook of information to support the training event. The Student Guide shall also include view-graphs (Attachment A0014), blank course critiques, acronym list, and course training schedule, Practical Exercise (C.16.5.6), Technical Training Course Material (C.16.5.3).

16.5.3 Technical Training Course Material: The Contractor shall provide technical training course material as is appropriate for the skill levels of the targeted audiences for both Operator and Field Level Maintainer TSP. The training will be used for the Operation/Operator Maintenance of the M1270 (NET) for MOS 12B, and Field Level of Maintenance (NET) for MOS 91B.

16.5.4 Training Test Support Package (TTSP): The Contractor shall develop and provide both an Operation and Field Level Maintenance TTSP as depicted in TRADOC Pamphlet 350-70-8. The TTSP will meet content requirements established in TRADOC Regulation 370-50 (Army Learning Policies and Systems), Section 8-3. The Contractor shall format the provided Training Support Package, POI, and Lesson Plans in accordance with TRADOC Regulation 350-70. All training development products will be entered into TRADOCs Automated Systems Approach to Training (ASAT) database. ASAT will migrate to the Training Development Capability/Army Training Information Architecture database, or follow-on/replacement system. MIL-HDBK-29612-2A can be used as guidance for developing the TTSP.

16.5.5 Test Questions Key: The Contractor shall develop and provide three 25 question tests with keys for both the Operator (CDRL A079) and Field Level Maintenance Courses (A080) in accordance with TRADOC Pamphlet 350-70-5 Chapter 3, for re-test and rotation to enable any re-testing or re-training that may be required. The Contractor shall develop and provide all changes to training aids/materials corresponding to any configuration change to the M1270 in accordance with AR350-1, TRADOC Regulation 350-70 (Army Learning Policies and Systems), and all referenced supporting TRADOC Pamphlets to the Contracting Officer for approval.

16.5.6 Classroom and Practical Exercise (PE): The instruction will be a combination of classroom and Practical Exercise (PE) (hands-on) training. PEs will be conducted using the primary equipment to teach operation, assembly and disassembly, inspection, testing, troubleshooting, repair, and safety procedures that align with the Government approved CTL (C.16.2.1). The training shall provide government personnel with the knowledge, technical qualifications, and reference materials necessary to perform all operations, operator maintenance, and field level maintenance tasks required to successfully accomplish their assigned mission.

16.5.7 STUDENT TRAINING CERTIFICATES/COURSE CRITQUES/ROSTERS (OPERATOR CMR: CDRL A081 & MAINTAINER FMR: CDRL A082 ): The Contractor shall provide each student a Training Certificate on the last day of the training course. Course critique sheets and attendance rosters shall be provided to the NET Manager, SFAE-CSS-MR-A Systems Acquisition Manager (SAM) and ILS Manager.

16.5.8 Electronic Editable Copy: The Contractor shall provide an electronic editable copy to the government for future training with a data package of all training illustrations. (All training support packages provided will be in an electronic editable copy). The government reserves the right to record any or all training, photographically or electronically, for instructional use or review. Such material becomes the sole property of the Government and no additional copyright of individual release will be required.

**17.0 SYSTEM SUPPORT PACKAGE (SSP) (CDRL A083A, CDRL A083B)**

17.1 System Support Package (SSP): The Contractor shall prepare and deliver a SSP (CDRL A083A and CDRL A083B) for the personnel (LDs, OT, Verifications), facilities (LDs, Verifications), and parts package replenished as required after each event (LDs, OT, Verifications), for support of LDs, OT, and Verifications on the M1270. The SSP shall consist of System Support Package List (SSPL) (CDRL A102A, CDRL A102B) and a System Support Package Plan (SSPP) (CDRL A103A, CDRL A103B). The Contractor shall update SSPs as a result of Test Inspection Reports (TIRs). If software changes are required due to test event material solution, the Contractor shall update diagnostic software through results of the LDs, as required. Government assistance may be required to install software on the Government owned MSD. The SSP shall be at the test location 30 days prior to the start of each test event. The SSP shall consist of the following:

- 17.1.1 SSPL (see C.17.2)
- 17.1.2 SSPP (see C.17.3)
- 17.1.3 Diagnostic Software (MSD) required due to test event material solution
- 17.1.4 System Support (see C.17.3)
- 17.1.5 Technical Manual (OEM validated PTM) (C.17.4)
- 17.1.6 Technical Personnel or Field Service Representative (FSR) (see C.17.5)

**17.2 System Support Package List (SSPL) (CDRL A102A, CDRL A102B):**

The Contractor shall develop a SSPL that include the following: spare/replacement of repair parts; common and special tools; Basic Issue

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Items (BII); Component of the End Item (COEI); and expendable supplies. The Contractor shall describe in detail and identify the on-hand quantity, status (long lead items) and source of supply of each item, whether Contractor or Government supplied. The Contractor shall update the SSPL 60 days prior to the start each event.

**17.3 System Support Package Plan (SSPP) (CDRL A103A, CDRL A103B):**

The Contractor shall develop SSPP describing how they will support the events identified (see C.17.1). The Contractor shall bear sole responsibility for correction (or fulfillment) of shortages or deficiencies and currency of the SSPP and SSPL that impact OT, LD and Verification. The Contractor shall document and recommend updates for all deficiencies associated with diagnostic software that are discovered at the time of or during the tests. The Government understands that the Contractor has no influence and is not responsible for the operation and deficiencies of the diagnostic software installed on the Government's Maintenance Support Device (MSD). The Contractor shall endeavor to provide these updates to the SSPP documentation within twenty-four (24) hours of notification. Any additional parts that are identified during the test event (OT, LD and Verification) will need to be analyzed and if required, added to the SSP and an updated SSPL forwarded to the Government. Accordingly, updates to the SSPP and SSPL shall be delivered to the test site (prior to retest), 30 days prior to the end of the next event (OT, LD and Verification). The Contractor shall supply the Government with a copy of the SSPP 30 days prior to the start of each event (CDRL A103A, CDRL A103B).

System Support is defined as the Contractor purchasing and providing any items, parts and components required to support the entire vehicle configuration for events identified by the Government in C.17.1 as identified on the approved SSPL (see C.17.2). The Government will provide petroleum oil and lubricants (POL) for each M1270 undergoing testing. The Contractor shall provide all other tools, equipment, parts, and expendable supplies to support the on-vehicle maintenance that is to be performed by the Government. If shortages or deficiencies are identified or discovered at the time of joint Government and Contractor inventory, 30 days prior to the commencement of LD, the Contractor shall bear the sole responsibility of fulfillment of all shortages, within twenty-four (24) hours of notification.

17.4 The Contractor shall provide copies of the Validated PTMs (see C.11; C.12) that have been updated prior to each event (LD, OT, and Verification) as depicted in the corresponding CDRL and PTM Delivery Chart Attachment A0018.

17.5 Technical Personnel/SME or Field Service Representative (FSR): The Contractor shall be prepared to provide Technical Personnel/SME and/or FSR support as identified. The FSR will provide technical repair and assistance, advice and make recommendations to instruct Government personnel in operations, maintenance, repair, and parts supply. Resolve system support matters/issues, and interface with any component part involving the Contractor and suppliers. The FSR shall support the events as identified; the FSRs shall be available to assist during the entire maintenance workday (not to exceed 12 hours). Technical Personnel/SME (Technical Illustrator, Logistician, etc) shall be made available, as required, to support the events and the workday durations as identified in C.5.8, C.5.9, C.5.10 and C.5.12)

**17.6 Vehicles Deficiencies**

17.6.1 The Contractor shall perform a detailed inspection and assessment report on each vehicle and major components (i.e., RDS) at the conclusion of OT and all phases of LD, Verification, and IKPT. The inspection shall include identification of all deficiencies on the equipment that prohibit it from being production representative, 10/20 standards. The Contractor shall provide the inspection and assessment report (CDRLs A084B, A084C, A084C.1, A084D, A084D.1, A084E and A084E.1).

17.6.2 The Contractor shall make best efforts to correct any deficiencies found on the equipment as a result of Validation, all phases of Logistics Demonstration (CDRL A084C, CDRL A084C.1), Operational Test (OT) (CDRL A084B), all phases of Verification (CDRL A084D, CDRL A084D.1), and all phases of I&KPT (CDRL A084E, CDRL A084E.1) within 15 days of each event.

**18.0 AUTHORIZED STOCKAGE LIST (ASL) AND INTERIM SERVICE PACKAGE (ISP)**

18.1 Authorized Stockage List (ASL) (CDRL A085): The Contractor shall develop one (1) single set of ASL to the support the initial fielding of the M1270. The ASL shall be developed to sustain the gaining units; it shall include all necessary items for one units first years annual services as well as any high failure items supported by the LORA (see C. 6.11) or specifically identified by the US Government. The Contractor shall submit the ASL to the Government for initial approval prior to the procurement of the parts.

**18.2 Interim Service Package (ISP) (CDRL A086):**

The Contractor shall develop one (1) single set of ISP to the support the initial fielding of the M1270. The ISP shall be developed to sustain the gaining units; it shall include all necessary items for one trucks first years annual services. The Contractor shall submit the ISP to the Government for initial approval prior to the procurement of the parts.

**19.0 FIELD MAINTENANCE TOOL KIT (FMTK)**

19.1 Requirement: The Contractor shall develop and produce one Field Maintenance Tool Kit in support of M1270 and IA. The Government will furnish as GFI/GFM to the Contractor, the Interrogator Arm STTE, images and artwork for insertion into M1270 FMTK. The Contractor shall build its test assets with the STTE identified as required based on the MA and MAC tools listed. The Contractor shall modify its

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FMTK as a result of Contractor Validation (see C.13), LD (see C.14) and Verification (see C.15). The Contractor shall provide pricing for all required tools and shall quote Brand Name or Equal. The tools and placards comprising the FMTK and FMTK supplement kits shall be contained in Pelican type containers. The Pelican type containers and the customized foam inserts for tool location are to be considered part of each respective kit and shall be included in the TDP (see C.19.12).

## 19.2 Tool Layout Plan (CDRL A087):

The Contractor shall design a tool layout plan and submit to the Government in current Microsoft Office software suite using the Contractors format (both written description and 3-D design). Design shall meet all safety and other applicable Government requirements and will focus on following objectives: optimize space utilization, logically juxtaposition related tools (tools used on similar items/tasks), maximize tool visibility/ identification and availability. The Contractor shall produce a physical test asset for product verification upon approval of design by the Government. Physical test asset shall be made available (shipped to Warren, MI) to the Government for review/inspection. Any Government directed additions, modifications or corrections associated with the Interrogator Arm Field Maintenance Tools shall be considered additional scope. Any other required changes in accordance with C.3.4.3.5 indicated by the Government shall be made and the final product shall be made available (see above) for final acceptance. All documentation and physical items developed under this SOW will become Government property and may be used in future procurement activities.

## 19.3 Individual Tool Images (CDRL A088):

The Contractor shall provide digital images of each component that is specified within the components lists. The digital images shall be of a sufficient resolution and quality that they can be clearly viewed on a Government prepared web site. The file shall be a .jpeg format. The filename of each image shall be the NSN/Part Number of that individual tool with the .jpeg extension.

19.4 Digital Images: Contractor shall supply digital images of all items contained in the applicable FMTK under development. The Contractor shall assume full responsibility to assure the digital images are of sufficient quality and in the proper format. The Government will reject any images that are blurred, too dark, too light or of otherwise poor quality. The Contractor shall bear the responsibility to provide new images at no additional cost to the Government in the event images are rejected.

## 19.5 Set Images (CDRL A089):

The Contractor shall provide a digital images of the entire Tool Load/Set procured within the contract. For containerized Sets, Kits, and Outfits (SKO), the images shall be of the open container(s) with the individual tools laid out around the container, and of each container/case/drawer/tray/etc. with the tools in their respective locations.

19.6 A Copyright release letter (CDRL A090) shall be provided to the Government along with the digital images. The signed copyright release letter shall be a signed copyright release giving the Government the unconditional right to reproduce and use all of the digital information provided within this SOW.

19.7 The Contractor shall be responsible for procuring all tools, foam and other components parts, pieces, raw stock to install the tool load. The Contractor shall cut foam for the cases and integrate the foam and special tools in accordance with the layouts and/or drawings. The Contractor shall not deviate from the tool layout plan once the CDRL A087 has been approved by the Government without first obtaining approval from the Government. The Contractor shall develop a placard, integrating digital pictures of drawers/trays/cases indicating tool locations. All labels/placards shall be made to allow a successful usage life of at least 10 years.

## 19.8 Receipt and Accountability (CDRL A104):

The Contractor shall bear the responsibility to receive, inspect, secure, inventory, ship and document any and all deficiencies of the materials received. The Contractor shall place these items in the appropriate secured storage location until necessary for utilization/over pack of the special tools. The Contractor shall provide accountability/inventory status of all items associated with the special tools program within 2 business days when requested by the Government. In the event materials are deficient, the Contractor shall submit a Supply Discrepancy Report/Report of Discrepancy to the Government as to what actions have been taken and provide a weekly status on any or all actions (C.19.8).

19.9 Over pack Requirements: The Contractor shall bear the responsibility to unpack the procured tool load and components as needed and shall place them (over pack) into the cases as required to meet layouts or drawings.

19.10 Non Sealed Drawer Components: The Contractor shall place appropriate items under this category within the cases in the appropriate areas as dictated by the layouts or drawings.

19.11 Sealed Drawer Packaging: The Contractor shall place sealed drawer packaged/foam assemblages in appropriate cases and locations per marking/label on that assemblage.

## 19.12 Technical Data Package (CDRL A100):

The Contractor shall develop a Level III TDP per MIL-STD-31000A in support of the FMTK which shall include containerized tools, a

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placard/booklet, and integrating digital pictures of drawers/trays/cases indicating tool locations. All labels/placards shall be made to allow a successful usage life of at least 10 years. The Government shall provide the Contractor with TACOM (19207) Kit drawing numbers that will be associated with the development of the Level III TDP at the Start of Work meeting.

19.13 Quality Assurance Provisions: The Contractor shall ensure 100% completeness of all tools and components before shipment. The Contractor shall warrant that cases are furnished with a complete tool load prior to shipment. In the event a case is found to be incomplete, the Contractor bears the cost to make that case complete.

## 19.14 Verification of the Contractor Responsibilities

19.14.1 Receipt: The Government reserves the right to witness and inspect the Contractor's method to receive, inspect, secure, inventory and ship equipment purchased by the Contractor in support of this effort. The Contractor shall update methods as require when deficiencies are found.

19.14.2 Oversight: The Government reserves the right to witness over packing of the special tools to insure of proper tool placement and verify inventory. Failure of the Contractor to correctly pack the tools shall be cause for rejection of that case.

19.14.3 Delays: The Contractor shall be responsible for any extension or delays in scheduled deliveries under this contract as a result of the Contractor's obligations to correct defects per para C.3.4.3.5.

## 20.0 ITEM UNIQUE IDENTIFICATION CANDIDATE LIST (IUID) (CDRL A091):

The Contractor shall deliver an IUID Candidate List for spare and repair items in accordance with DFARS Clause 252.211-7003. The IUID Candidate List shall be developed in accordance with MIL-STD-130N (1). The proposed information content; Human Readable Information; Machine Readable Information (2D Data Matrix) marking protocol; and the label location, size, material and method of attachment appropriate for each IUID Candidate shall be included on the IUID Candidate list. The IUID Candidate List shall capture all required information, in accordance with MIL-STD-130N (1) to include description, manufacturer CAGE code, Part Number, Serial Numbers.

## 21.0 DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES (DMSMS)

## 21.1 DMSMS Management Plan (CDRL A092):

The Contractor shall develop a DMSMS plan and revise if new technologies have been developed to managed DMSMS and obsolescence. The Contractor shall develop and maintain a Diminishing Manufacturing Sources and Material Shortages (DMSMS) management plan for managing the loss, or impending loss of manufacturers or suppliers of parts and/or material as required by DoD 4140.1-R, DoD Supply Chain Management Material Regulation. The Contractor shall alert the customer as soon as possible when it has been determined that a part has been identified as diminishing or obsolete part. Up to the point of Configuration Lock, the Contractor shall consider revising the engineering drawing, schematics and specification when it has been identified that changes have been made. The Contractor must ensure that all of the hardware is producible and maintainable throughout the life cycle of the contract. The Contractor must present updated status of DMSMS and obsolescence issues at scheduled IPR meetings and brief resolution options.

## 21.2 Engineering Bill of Material (E-BOM) (CDRL A093):

The Contractor shall provide an E-BOM.

21.3 DMSMS Forecasting and Notifications: The Contractor shall establish a process for identifying and notifying the Government of forecasted and identified DMSMS issues to the Government. The Contractor shall use a predictive tools and methods to proactively forecast and monitor parts for DMSMS. The Contractor shall provide access to the Government, for review, all DMSMS information. Government representatives shall participate as a member of the DMSMS Management Team (DMT) and have full access to all DMSMS data and information.

## 22.0 TRANSPORTABILITY REPORT (CDRL A094):

The Contractor shall produce a Transportability Report that includes the data for disassembly and assembly for the base vehicle required to meet all transport modes and shall ensure that this information is added to the operators manual. This data may be added as an appendix to the manual. The Contractor shall include a reference identifying the location of tools and equipment required for preparation of transport.

The Contractor shall produce and deliver a Transportability Report that includes the data for disassembly and assembly for base vehicle including the Robot Deployment System, add on armor (Chevron), and roller bracket required to meet all transport modes and shall ensure that this information is added to the operators manual. This data may be added as an appendix to the manual. The Contractor shall include a reference identifying the location of tools and equipment required for preparation of transport.

## 23.0 HUMAN FACTORS ENGINEERING

23.1 Human Factor Engineering: The Contractor shall consider that the system is consistent with the capabilities and limitations of the

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fully equipped Soldier to operate, maintain, supply, and transport it in its operational environment, consistent with tactical requirements and logistical capabilities. The scope of the HFE analysis activities shall include compensation for the effects of personal equipment; clothing; protective gear; extremes of natural environment including atmospheric, degraded visibility, thermal, and terrain conditions as defined by system requirements; workload contingencies; and combat training scenarios for each deployment mode and intended duty cycle (normal, sustained, and emergency). The Contractor shall perform analysis only, no testing shall be conducted. Data resulting from PVT testing will be provided by the Government in the form of GFI for portions of the analysis that require test data. The Contractor shall evaluate the system to assess capability to maximize system and human performance and combat effectiveness and identify any shortfalls. MIL-STD -1472G & MIL-STD-1474 are to be used as the benchmark for assessment.

**23.2 Human Factors Engineering Analysis (HFEA) (CDRL A095):**

The Contractor shall perform and deliver an HFEA. The HFEA shall describe the status of the systems human factors engineering program and contain adequate data to support the Contractors assertions that the system meets the human factors engineering requirements for Milestone Decision and Design Reviews. The Contractor shall identify HFE shortfalls or issues. The Contractor shall perform analysis only, no testing shall be conducted. Data resulting from PVT testing will be provided by the Government in the form of GFI and portions of the HFEA that require test data. The Contractor shall maintain a database of the issues and provide updates per the CDRL. The Contractor shall use MIL-STD-1472G, Human Engineering Design Criteria for Military Systems Equipment and Facilities, and MIL-STD-1474, Noise Limits Design Criteria for Military Systems Equipment and Facilities as the benchmark for assessment.

**24.0 CORROSION PREVENTION AND CONTROL PLAN (CPCP) (CDRL A096):**

The Contractor shall develop a CPCP for the M1270 using guidance from Corrosion Prevention and Control Planning Guidebook Spiral 3. The CPCP shall include a discussion of corrosion prevention techniques employed in design, including measures taken to minimize water collection/entrapment and collection of debris, mitigate corrosion in areas inaccessible to cleaning and maintenance. The updated CPCP should include any test data generated by the unit manufacturer for coatings and materials or relevant observations of corrosion on fielded units.

**25.0 HAZARDOUS MATERIALS MANAGEMENT REPORT (HMMR) (CDRL A097):**

25.1 The Contractor shall prepare a HMMR which, at a minimum, shall identify all hazardous materials delivered on the vehicle or required for operation and sustainment, specifying the part(s) containing the hazardous material. The HMMR shall also identify all hazardous materials used in the final system manufacture and assembly, specifying the process(es) utilizing the hazardous material. Hazardous Material data that pertains to the Government developed portion of the vehicle TDP will be provided by the Government in the form of GFI. CARC does need to be included in the HMMR as does any pre treatment, primer and top coat. MSDs for the CARC, pre treatment, primer and topcoat need to be included in the HMMR as well. The specific hazardous material components of the CARC do not need to be listed out separately within the HMMR.

25.2 This report shall be prepared in accordance with National Aerospace Standard 411, section 4.4.(Exception to NAS 411 Section 4.4.1: Hazardous material used in system manufacture and assembly shall be identified in the report in addition those hazardous materials delivered and required for operation and support.) The report shall include a listing of prioritized hazardous substitute materials for minimization/elimination and identify those hazardous materials/processes for which non-hazardous substitute materials/technologies may be available for implementation. The HMMR shall specify which phase (manufacture, operation, and or sustainment) that each material is required for.

**26.0 SYSTEM SAFETY AND SAFETY ENGINEERING SUPPORT (CDRL A098)**

26.1 The Contractor shall consider the following:

26.1.1 Identifying hazards associated with the system by conducting safety analyses and hazard evaluations. Analysis shall include both operational and maintenance aspects of the vehicle along with potential interface problems with planned subsystems.

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26.1.3 Controlling or minimizing hazards to personnel which cannot be avoided or eliminated.

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26.1.5 Identification and safe system discharging of mechanical, electrical, pneumatic or hydraulic or liquid system designs to exhaust system components, pneumatic components and hydraulic components which are of such a nature or so located as to be a hazard to operating or maintenance personnel.

26.1.6 The Contractor shall ensure that suitable warning and caution notes in all manuals and publications and shall specify standard Government warning labels types and placement locations as well as instructions for safe operation, maintenance, assembly and repairs and distinct markings placed on hazardous components of equipment of the M1270 vehicle.

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26.1.8 Intentionally Left Blank

26.1.9 Hazardous materials will be disposed of utilizing Contractor procedures in accordance with applicable local regulations with related costs to be charged to the contract.

26.1.10 The Contractor shall as a result of safety analyses, hazard evaluations, and Government test data, prepare a Safety Assessment Report (SAR) (CDRL A098). The SAR shall identify all vehicle safety features, discuss all potential safety and health related problem areas and shall establish special procedures and precautions to be observed by Government test agencies and system users. Data resulting from PVT will be provided by the Government in the form of GFI for portions of the SAR that require test data.

26.1.11 The Contractor shall submit in the event the system is modified or procedural changes made after the final SAR is submitted, a Contractor updated SAR to reflect those modifications or changes and shall maintained and update this information throughout the life of the contract.

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26.1.13 During system analysis, definition, integration planning, and design, the Contractor shall ensure that logistics, producibility, quality, human factors safety, MANPRINT, test RAM-D, and environmental impact are considered. All trade-off evaluations conducted shall include consideration and an estimate of production cost and, if applicable, retrofit and further development costs in the study.

26.2 The Contractor shall participate in the following meetings:

26.2.1 Systems Requirements Review

26.2.2 System Function Review

26.2.3 System Design Review

26.2.4 Preliminary Design Review

26.2.5 Other interim program reviews that result as of safety issues

27.0 ENGINEERING INDENTURED BILL of MATERIAL (E-IBOM) (CDRL A099)

27.1 The Contractor shall provide a complete BOM, a complete listing of all parts utilized to build the end item, as well as any assembly that has its own Technical Manual (i.e. RDS,). The BOM will be used to establish the configuration baseline for the end item and the identified assemblies (Attachment A0015).

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

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## SECTION J - LIST OF ATTACHMENTS

<u>List of Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number of Pages</u>	<u>Transmitted By</u>
Attachment 0001	MAINTENANCE ANALYSIS	02-MAY-2014	005	EMAIL
Attachment 0002	STTE LIST	02-MAY-2014	001	EMAIL
Attachment 0003	PROVISIONING	02-MAY-2014	006	EMAIL
Attachment 0004	NSN SPLIT	02-MAY-2014	001	EMAIL
Attachment 0005	PACKAGING DATA PRODUCTS	02-MAY-2014	003	EMAIL
Attachment 0006	INCOMING TRANSACTION FORMAT	02-MAY-2014	002	EMAIL
Attachment 0007	REVISIONS AND EXCEPTIONS TO SAE ARP 1967A	02-MAY-2014	003	EMAIL
Attachment 0008	TB-9-289	02-MAY-2014	025	EMAIL
Attachment 0009	GENERAL PUBS	02-MAY-2014	008	EMAIL
Attachment 0010	TM MATRIX	02-MAY-2014	023	EMAIL
Attachment 0011	SOURCE DATA	02-MAY-2014	001	EMAIL
Attachment 0012	DTD AND STYLE SHEETS	02-MAY-2014	001	EMAIL
Attachment 0013	NMWR CANDIDATE	02-MAY-2014	001	EMAIL
Attachment 0014	NET VIEW GRAPHS	02-MAY-2014	004	EMAIL
Attachment 0015	BOM BASELINE	02-MAY-2014	002	EMAIL
Attachment 0016	TM WP MATRIX	02-MAY-2014	001	EMAIL
Attachment 0017	CONTRACT DATA REQUIREMENTS LIST (CDRL)	02-MAY-2014	152	EMAIL
Attachment 0018	PTM DELIVERY SCHEDULE	02-MAY-2014	001	EMAIL
Attachment 0019	POR ILS PROGRAM SCHEDULE	02-MAY-2014	001	EMAIL