

2. Amendment/Modification No. P00561	3. Effective Date 2004SEP13	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By TACOM WARREN AMSTA-AQ-ATBA STANLEY HARMS (586)574-5481 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: HARMSS@TACOM.ARMY.MIL	Code	W56HZV	7. Administered By (If other than Item 6) DCMA INDIANAPOLIS EMMETT J. BEAN CENTER 8899 E. 56TH ST. INDIANAPOLIS, IN 46249-5701	Code	S1501A
			SCD B PAS NONE ADP PT HQ0337		

8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) AM GENERAL LLC 105 N NILES AVE SOUTH BEND, IN. 46617-7025  TYPE BUSINESS: Large Business Performing in U.S.	<input type="checkbox"/>	9A. Amendment Of Solicitation No.
	<input type="checkbox"/>	9B. Dated (See Item 11)
	<input checked="" type="checkbox"/>	10A. Modification Of Contract/Order No. DAAE07-01-C-S001
	<input type="checkbox"/>	10B. Dated (See Item 13) 2000NOV06
Code 0H3G6	Facility Code	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers  is extended,  is not extended.

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

12. Accounting And Appropriation Data (If required) Payment will be made by Electronic Funds Transfer  
NO CHANGE TO OBLIGATION DATA

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

KIND MOD CODE: C It Modifies The Contract/Order No. As Described In Item 14.

<input type="checkbox"/>	A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A.	The Changes Set Forth In Item 14 Are Made In
<input type="checkbox"/>	B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).	
<input checked="" type="checkbox"/>	C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: Mutual Agreement	
<input type="checkbox"/>	D. Other (Specify type of modification and authority)	

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

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

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

15A. Name And Title Of Signer (Type or print)	16A. Name And Title Of Contracting Officer (Type or print) MARY K. REHM REHMA@TACOM.ARMY.MIL (586)574-6553		
15B. Contractor/Offeror  (Signature of person authorized to sign)	15C. Date Signed	16B. United States Of America  By _____ /SIGNED/ (Signature of Contracting Officer)	16C. Date Signed  2004SEP13

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**Name of Offeror or Contractor:** AM GENERAL LLC

SECTION A - SUPPLEMENTAL INFORMATION

PROGRAM: A2 High Mobility Multi-purpose Wheeled Vehicle (A2 HMMWV)

CONTRACT: DAAE07-01-C-S001

CONTRACT MODIFICATION: P00561

1. This Modification is issued to remove the Multi-user ECP Automated Review System (MEARS) from the contract. The following paragraphs have been revised to reflect this change: C.3.8.2.a., C.3.8.2.a.(2), C.3.8.2.b.(1), C.3.8.2.b.(2), C.3.8.2.d., C.3.8.2.e., C.3.8.2.e.(1), C.3.8.2.e.(2), C.3.8.2.e.(3), C.3.8.2.e.(4), C.3.8.2.e.(5), C.4.4.a, C.4.4.d, and C.4.7. In addition to the paragraphs listed here, the term MEARS is deleted from any other contract clause where it appears and is replaced with 'Government approved electronic system'.

2. As a result of this Modification P00561, the contract value is not changed.

3. Except as provided for herein, all terms and conditions of the contract remain unchanged and in full force and effect.

\*\*\* END OF NARRATIVE A 521 \*\*\*

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## SECTION H - SPECIAL CONTRACT REQUIREMENTS

SECTION C  
HMMV A2 SCOPE OF WORK  
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Name of Offeror or Contractor: AM GENERAL LLC

## SECTION C - HMMWV A2 SCOPE OF WORK

C.1. SUBCONTRACTOR'S DRAWINGS AND SPECIFICATIONS  
TACOM

(SEP 78)

It shall be the responsibility of the prime Contractor to furnish the requisite drawings, specifications, and pertinent information to its subcontractors.

C.2. OZONE-DEPLETING SUBSTANCES  
TACOM

All materials and components shall be free of ozone depleting substances per applicable Federal regulations in effect on the date of manufacturer.

C.3. SCOPE OF WORKC.3.1 Description:

a. This Contract is for the production of HMMWV A2 and Extended Capacity Vehicle (ECV) series of vehicles. The model, kit requirements and quantities to be provided shall be as identified in Section B. The phrases Item Description, Level 3 TDP, Baseline Configuration, Product Configuration Identification and Configuration Baseline are used interchangeably within this Contract to address the vehicles being procured. These phrases shall be considered synonymous and are defined by the following:

b. The Technical Data Package (TDP).

c. The list of ECPs, TDP Change Letters, RFDS/Ws as identified in the Attachments 2 through 6.

d. The top drawing for each model as shown here:

NomenclatureDrawing

Truck, Utility, Armament Carrier, Basic Armor, M1025A2	8750309, Rev J
Truck, Utility, Armament Carrier, Supt1 Armor, M1043A2	8750310, Rev F
Truck, Utility, TOW Carrier, Supt1 Armor, M1045A2	8750311, Rev G
Truck, Ambulance, 2 Litter, Soft Top, M1035A2	8750312, Rev J
Truck, Ambulance, 4 Litter, Basic Armor, M997A2	8750314, Rev F
Truck, Utility, Heavy Variant, M1097A2	8750315, Rev E
Truck, Utility, Expanded Capacity Vehicle, M1113	87T0014 Rev Y
Truck, Chassis, M1113 Expanded Capacity Vehicle for M1114	RCSK 17585, Rev V1
Truck, Chassis, M1113 Expanded Capacity Vehicle for M1116	RCSK 17585, Rev V1
Truck, Utility, M1123 for the USMC	87T0080, Rev B

e. ATPD 2099C, Amendment 2 dated 25 October 2000 (Attachment 1 to this Scope of Work).

f. The terms and conditions contained in Section C.3 entitled Scope of Work. In the event of conflict, the requirements of Section C.3 shall take precedence over the data and requirements of the above items b, c, d, and e.

g. In lieu of the drawing revision levels required by the TDP identified in C.3.1, the Contractor may continue to produce in accordance with the drawing revision levels which exists on the DAAE07-96-D-X001 Contract.

(i) This provision is not applicable to the drawings modified by the ECPs, and TDP Letter Revisions identified in the attachment. However, Engineering Release Records (ERRs) will take precedence over the TDP Letter Revision once incorporated into production. A list of the current ERRs is also attached as Attachment 6.

(ii) This provision is not applicable to the new finish requirement as defined by paragraph C.3.2.i.

(iii) The Contractor agrees to continue reviewing Level III drawings and comparing them to current production drawings. Where no differences affecting cost, tooling or configuration exists, the Contractor agrees to incorporate the latest Level III drawing into production on a running change basis.

h. Waivers, Deviations TDP Change Letters, ECPs and ERRs approved under Contract DAAE07-96-D-X001 and as identified in the Attachments 2 through 6 are hereby included and shall be equally applicable to performance under this contract.

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i. The Contractor shall compare the current Level 3 drawing revision levels with the current production drawings as part of the preparation of any ECP, VECP, PPEP, Waiver or Deviation to be submitted under this Contract. Where no differences affecting cost, tooling or configuration exists, and the change is the result of a PPEP, Waiver, or Deviation submitted and approved under Contract DAAE07-96-D-X001, or this contract, the Contractor shall incorporate the latest Level 3 drawing revision level into production on a running change basis. The ECP, VECP, PPEP, Waiver or Deviation shall then be prepared using the latest Level 3 revision of the drawing. Where differences are found that would affect cost, tooling, or configuration, the Contractor shall then use the drawing revision levels that currently exist on the DAAE07-96-D-X001 Contract to submit the ECP, VECP, PPEP, Waiver or Deviation.

j. The full documentation verifying the vehicle design demonstrates compliance with ATPD 2099C, Amendment 2 in Government Pre-Production qualification testing and verification testing of design changes in ECPs P9449, and P9440 is not yet available. This includes A2 and ECV design changes (examples of which would be ECPs AMG-P9440 and AMG-P9449). It is not the intent that the production vehicle performance exceed that demonstrated by the design in the above Government testing. In the event there is a nonconformance with the specification requirements before reports are available, the Government will provide documented verification that the design met the requirement before corrective action is required of the Contractor. The Government will provide test reports as they become available to confirm design compliance.

C.3.2. Changes/Modifications to the Item Description. The Government agrees to accept the following changes/modifications to the Item Description and all associated contract provisions provided the identified conditions are satisfied. Where specified, Preproduction Engineering Proposal (PPEP) submittals shall be in accordance with Section C.4, entitled "Preproduction Evaluation".

a. Paragraph 3.5.4 of ATPD 2099C, Amendment 2, entitled "Dissimilar Metals," shall only be applicable to changes to the Item Description proposed or submitted by the Contractor.

b. Notwithstanding the requirements in Paragraph 3.7.7. of ATPD 2099C, Amendment 2, entitled Fording, the trailer receptacle components identified in the Level 3 TDP shall be used.

c. Paragraph 3.5.16 of ATPD 2099C, Amendment 2, entitled DS2 Decontamination, shall only be applicable to changes to the Item Description proposed or submitted by the Contractor.

d. It is agreed by both parties that any formally approved ECP valued at a unit price of plus or minus \$5.00 per vehicle, per variant, will be treated as a "No-Cost" ECP. After formal approval, the Government will incorporate it at zero dollars.

e. Lap Shear Testing. In lieu of QAP requirements on individual drawings, lap shear testing shall be performed in accordance with Contract DAAE07-96-D-X001.

f. MIL-STD-130 Marking Requirements. Drawing requirements for MIL-STD-130 marking shall not be applicable to production parts which are not currently being supplied with MIL-STD-130 markings. Spare parts and components that are currently provided with MIL-STD-130 markings shall continue to be provided with such markings.

g. The Government waives the QAP requirement for Part Nos. 12447039, 12447040, 12447041 and 12447042. The Contractor shall provide the 3 1/2 Ton Jack to the Contractor's Commercial Part No. 5939822L with the Canvas Tool Bag, P/N 12447043.

h. Commercial Item Descriptions (CIDs), Specifications and Standards used during the course of the DAAE07-96-D-X001 contract shall apply to this contract.

(1) The issue of specification for TT-C-490, Cleaning Methods of Ferrous Surfaces and Pretreatment of Organic Coatings, shall be Revision D.

(2) The current edition of the DODISS should be used for all finish specifications identified in paragraph C.3.2.i, Corrosion.

i. Corrosion:

(1) The parties agree to work together to continue to improve the corrosion protection of the HMMWV with a goal of a 21-year life. An Integrated Project Team (IPT) has been developed to determine the corrosion improvements as defined in the "Charter for the HMMWV Corrosion Improvement Integrated Project Team" incorporated into this contract by reference.

(2) Paint and Alodine Processes shall be performed in the same manner as provided under Contract DAAE07-96-D-X001. All system approvals/certifications granted under Contract DAAE07-96-D-X001 shall carry over. Paint and Alodine process specifications QAPP 202, QAPP 203 and QAPP 204 are hereby incorporated into the Contract by reference. Modification, waiver or deviation from these procedures shall be subject to Government approval. QAPP 204 will be updated and revised to reflect inspection, acceptance criteria and controls currently used in production for the zinc rich finishes within 60 days of the contract award date. AM General will submit certification that current processes comply with all CIODS requirements. The finishes on parts subject to the corrosion enhancements are covered by paragraph (3) below entitled Corrosion Specifications.

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**Name of Offeror or Contractor:** AM GENERAL LLC**(3) Corrosion Specifications:**

Finishes for corrosion control shall be the same on the components as provided under Contract DAAE07-96-D-X001 as defined for A2 unique parts in Delivery Orders 40, 57, 60, 69 and Attachment CC for inspection of the Cargo Shells, Roof and Loaders Door on the M1025A2, M1043A2 and M1045A2 variants. Except that the RM RCSK Level II Corrosion Control Finish requirements shall be replaced with the following Level III drawings with the listed exceptions being applicable: ECV unique components unless otherwise specified by the TDP or Contract Modification are excluded from the Corrosion Control requirements.

<u>Level III Drwg No.</u>	<u>Level II Drwg No.</u>	<u>Title</u>	<u>Exception Taken</u>
12469112	RM RCSK 18508	Coating Autophretic	None
12469113	RM RCSK 18509	Primer, Organic Zinc Rich	1, 2, & 3
12469114	RM RCSK 18510	Galvanizing, Hot Dip	None
12469116	RM RCSK 18512	Corrosion Protection Procedure for Welding Stainless Steel	None
12469117	RM RCSK 18513	Corrosion Protection Coating for Fasteners, Organic Type	1
12469120	RM RCSK 18534	Primer, Zinc Rich Immersible Organic	1, 3 & 4
12469123	RM RCSK 18884	Finish for Wearable Surfaces	None
12469218	None	Corrosion Protective Coating for Fasteners, Electrically Conductive	None

**Exceptions:**

1. Finish Performance Drawing requirements of 12469122 are not applicable as defined on the above individual Finish Drawings. 12469122 defines the desired goals to be used as a guide in establishing Bench Marks for the HMMWV Corrosion Integrated Process Team (IPT) goals as defined in the HMMWV Corrosion Improvement Integrated Project Team Charter. Corrosion control improvements are to be established and implemented by agreement of the IPT on a running change basis and as negotiated by Contract Modifications.

All test panels produced in accordance with 12469122, paragraph 3.1.3.A for the production Benchmark testing shall be made from 1006-1010 Commercial Quality Cold Rolled Steel. For determining benchmark for the 120 cycle Target Mass Loss (mg) Table 1, page 9 of 12469122, replace with the following:

\*Use the 80 cycle targets plus the 8 to 40 cycle targets to arrive at the 120 cycles.

\*To accomplish this, at the 80 cycle point add an extra 10 new mass-loss coupons to accommodate the final 8 to 40 cycle targets to complete the 120 cycles. The original 30 Mass-Loss Coupons specified in 12469122 for 120 cycles are still to be determined, the last 10 coupons (80 to 120) are to be determined and recorded for informational purposes.

2. Note 8 on drawing 12469113 is only applicable when it is defined on the individual detail part or assembly drawing for the fasteners to have a protective finish. Threads free of paint shall apply.

3. Four hours between surface cleaning and zinc rich primer application shall be extended to eight hours as long as all surfaces are at a white metal condition with no signs of corrosion. Contractor agrees to research methods of inspection for verifying cleanliness of surface profiled parts for zinc rich primer applications.

4. Note 7 on drawing 12469120 is only applicable when it is defined on the individual detail part or assembly drawing for the fasteners to have a protective finish. Threads free of paint shall apply.

(4) Flat washers provided with cadmium plating per QQ-P-416, Type II, Class II or Tin Zinc IAW 12469218 is an acceptable alternative for Drawing 12469117, Corrosion Protective Coating for Fasteners, Organic Type.

(5) The use of Tin Zinc coating IAW 12469218 or cadmium plating per QQ-P-416, Type II, Class II is an acceptable alternate finish for, and can be used in place of Dorrltech 12469117 on all fasteners that require upsetting or pressing in, AllenHead or Torx Head screws, AVK Nuts, Plus Nuts and Strux Nuts.

(6) All fasteners used in electrical connections shall be cadmium plated in accordance with QQ-P-416, Type II, Class II or Tin/Zinc Alloy in accordance with Drawing 12469218.

(7) The requirements of the Level III Finish Drawings with exceptions identified in paragraph C.3.2.i. (3) above shall take precedence over finish related contractual requirements contained in Section C and E of this contract.

(8) All vehicles shall be produced with reflectors in accordance with Drawing N o. 12342500.

(9) The contractor shall plug all tooling holes in the frame rails with tape RCSK 19197 and plugs 12342500 IAW EX5063

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Revision (A\*). On USMC variants only, the contractor shall seal the front and rear closure plates of the frame rails. The contractor shall use Silaprene Sealer, Part No. 5593929 to seal the end plate at the front and Epoxy Putty Part No. RCSK 19198 around the rear closure plates and the frame rail. The Army variants shall not receive the front cover plates or the 2 plugs, 1234000 in the rear closer plates of each frame rail.

(10) Parts and panels, identified in Attachment DD may be provided with zinc phosphate treatment instead of the 1.0 to 3.5 mil surface profile. Contractor shall continue monitoring the adhesion between the zinc phosphate and zinc rich epoxy primer on untopcoated panels or components. Attachment DD will be updated and controlled by the Corrosion IPT team.

j. Vehicles shall be produced with the weapons station and bearing revisions included in Change Letter A7.

C.3.3 The Army Maintenance Management System (TAMMS): The Contractor shall prepare a DA Form 2408-9, Equipment Control Record (Government furnished) for each vehicle in accordance with DA Pamphlet 738-750. An initial stock of these forms will be provided to the Contractor at least thirty days prior to shipment of the vehicles. The contractor shall advise the PCO at least sixty days prior to exhausting inventory of the forms. The contractor shall prepare the form to reflect the initial accountable Army consignee. The form, which is in triplicate, shall be distributed as follows:

- a. NMP Copy 1 shall be submitted within three working days after vehicle shipment to:  
Commander  
U.S. Army Logistics Support Activity  
ATTN: AMXLS-RR  
Redstone Arsenal, AL 35898-7466
- b. There is no requirement for Control Copy 2; therefore, it may be disposed.
- c. The Log Book, Copy 3, shall be placed in the equipment record folder and shall be overpacked with the vehicle.

C.3.4 Conferences, Reviews and Production Reports:

The following conferences and/or review are required in addition to any others that may be specified:

a. Engineering Conference: During the course of this contract, engineering conferences between the Government and Contractor may be required to assess and resolve issues relating to vehicle production or other deliverables. The Contractor shall provide marked drawings, design data, inspection reports, sample parts or other form of information required for assessment and resolution of the issue. Engineering conferences may be initiated by either the Contractor or the Government. Contractor request for engineering conferences shall be addressed to the Designated Engineering Representative with a copy furnished to the Contracting Officer. Contractor requests shall identify the issue and potential effects on vehicle production or other Contract deliverables. The Contractor shall coordinate the time, location, required personnel, subject matter and conference agenda with the Designated Engineering Representative. Location of the conferences shall be at TACOM or the Contractor's facility as determined by the Designated Engineering Representative. The Contractor shall arrange for and bear the costs of meetings held at the Contractor's facility.

b. Program Reviews: During the course of this contract, there shall be monthly reviews between the Government and the Contractor to assess the progress of the work being performed under this Contract and to resolve issues relating to production vehicles or other deliverables under this Contract.

C.3.5 Quality Requirements:

a. Quality System: The Quality System shall be maintained in accordance with International Standards Organization (ISO)9001. All established Quality Procedures, SRI's, and Manufacturing Process Certifications approved/incorporated into the DAAE07-96-D-X001 Contract shall carryover into this contract.

b. Initial Production Approvals (IPAs).

(1) The Contractor shall perform or have his subcontractor perform the IPAs and certifications depicted in the QAPs, for the items not previously approved prior to production of vehicles. The Contractor shall notify the PCO of any plan to perform an IPA and must deliver a plan for accomplishing the IPAs to the PCO. The PCO shall, by written notice to the Contractor within 30 calendar days after receipt of the plan, conditionally approve or disapprove the plan. As a minimum, the plan shall contain a schedule with timeframe, performance, and location information. The Contractor shall update the plan as required and such updates are subject to Government approval.

(2) All IPA final results shall be submitted to the Government in accordance with DID DI-RELI-80322 and CDRL A004. The Government will not approve First Production Vehicle Inspection (FPVI) nor accept production vehicles until all applicable IPAs are complete.

(3) Any IPAs required by related Quality Assurance Provisions (QAPs) that have been completed under Contracts DAAE07-96-D-

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X001 to the Government's satisfaction will not have to be repeated.

(4) Sources of Supply:

(a) If the Contractor elects to change sources of supply for an approved part, the IPA, required by the QAP, must be completed prior to acceptance of the new component. All costs for conducting the IPA shall be borne by the Contractor. Any production or delivery delays which occur because of such IPAs will not be considered an excusable delay under this contract, and shall not be a basis for adjustment in contract prices or delivery schedules.

(b) After approval of the First Production Vehicle Inspection (FPVI), the Contractor shall provide written notice to the Government of any changes in materials, manufacturing, methods/processes, facilities or changes in personnel. The Contractor shall provide a written description of any such changes and any proposed changes. In the event of such changes, the Government reserves the right to require additional testing at no additional cost to the Government to validate that the changes have not adversely affected the vehicle performance, safety, or quality.

c. If a HMMWV part/component has commercial requirements equal to or better than QAP IPI, the Contractor may submit this data for Government approval in lieu of the IPI requirement.

C.3.6 Statistical Process Control (SPC)

The Contractor shall maintain the SPC program developed by the Contractor and accepted by the Government under Contract DAAE07-96-D-X001.

C.3.7 Interchangeability of Components:

a. No change affecting physical or functional interchangeability shall be made by the Contractor or any of its subcontractors in such item or part with respect to supplies delivered under this Contract unless such change is first approved by the Contracting Officer.

b. In order to determine whether such change should be approved, the Government reserves the right to conduct tests or retests at the Contractor's expense. Any production or delivery delays occasioned by such testing will not be considered an excusable delay under this contract. Further, such delays shall not form the basis for an adjustment in contract price or delivery schedule.

C.3.8 Configuration Management: The Contractor shall use best practices to maximize return on investment and reduce product and service life cycle costs. The application of the principles in source document Electronic Industries Alliance (EIA)-649 may be used to implement the technical and program management principles fundamental to configuration management. MIL-HDBK-61 and MIL-STD-973 may also be used for CM-related guidance.

C.3.8.1 Baseline Configuration and Control

a. The HMMWV configuration baseline shall be as defined in C.3.1 of this Contract.

b. Configuration management and configuration control of all vehicles provided under this contract remains with the Government except as provided for elsewhere in this Contract. Changes to vehicle configuration will be directed by and/or approved by the Government. The Contractor may be provided configuration changes through Government approved Engineering Change Proposals (ECPs) or PPEPs as specified in C.3.1, C.3.2 or C.4. NOTE: The Contractor shall not use PPEPs to revise technical data which is not in the custody of AM General Corporation, PO Box 3330, Livonia, MI 48151-3330. If the Contractor wishes to propose a change that affects technical data not in the custody of the Technical Support Contractor, the Contractor shall submit an ECP, VECP, waiver or deviation.

c. The Contractor shall obtain a block of Government Control Numbers to be used in the preparation and tracking of ECPs, VECPs, and PPEPs. The Contractor shall contact USATACOM, AMSTA-TR-E/LTV, e-mail: darnelln@tacom.army.mil for issuance of a block of numbers to be used by the Contractor under this Contract.

C.3.8.2 Configuration Status Accounting and Engineering Records

a. Engineering Change Preparation: The Contractor may prepare and submit to the Government engineering changes in the form of Engineering Change Proposals (ECPs) and Value Engineering Change Proposals (VECPs). All ECPs/VECPs submitted to the Government shall be prepared using a Government approved electronic system and delivered in accordance with DI-CMAN-81589(T) and CDRL A001. All ECPs shall contain Notice of Revision (NOR) information, delivered in accordance with DI-CMAN-81591(T), CDRL A002. The Contractor shall submit his own electronic compatible NOR format or utilize the NOR form/process established by AM General Corp., Livonia MI. Each NOR shall be attached as an enclosure or electronic compatible imported file. VECPs do not require NORs, however, the electronic VECP shall contain marked prints, sketches, reports, calculations or other data sufficient to serve as a basis for evaluating the VECP. The justification code "V" shall be assigned to an engineering change that will affect a net life cycle cost reduction and which is submitted pursuant to the VE clause of the contract.

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(1) Configuration Change Control Numbers: The Contractor shall assign a control number to each change proposal submitted to the Government. The Control number shall consist of the Contractor's assigned symbol (AMG) and the applicable assigned TACOM five-digit alpha/numeric number obtained per paragraph C.3.8.1.c. Once assigned, a control number shall not be reused, recycled or duplicated. The Contractor shall maintain records of where and when each ECP/VECP/PPEP number was used.

(2) Engineering Change Enclosure List: The Contractor shall prepare and attach (as an enclosure or electronic compatible imported file) an ECP Enclosure List as part of the electronic ECP delivered in accordance with DI-CMAN-81589(T) and CDRL A001 for each ECP submitted to the Government. The Engineering Change Enclosure List shall identify all documents contained in the proposed change package. The enclosure list shall identify all end items affected under this contract. The Contractor shall use his own ECP Enclosure List format or utilize the Enclosure List form/process established by AM General Corp., Livonia MI.

**b. Requests for Deviations and Waivers:**

(1) The Contractor may submit requests for relief from a particular contract requirement without affecting a change to the applicable technical data. These requests shall be submitted in the form of Request for Deviations (RFDs) and Request for Waivers (RFWs) prepared in accordance with the electronic system and delivered in accordance with DI-CMAN-81590(T), CDRL A003. Deviations and waivers are for the benefit of the Contractor and consideration offered for acceptance of the proposed RFD/RFW shall be attached as an enclosure or electronic compatible imported file.

(2) The ACO may approve certain Deviations and Waivers that meet requirements for "minor" classification. In these cases, the ACO will serve as Approving Authority in the electronic system. The TACOM Approving Authority will approve all major and critical RFD/Ws and those minor RFD/RFWs not approved at the ACO level.

c. Effectivity Certification. Changes resulting from RFDs/RFWs, VECs and ECPs shall be incorporated into production through contract modification. Actual cut-in of these changes shall be at a single end item cut-in point. Each ECP, VEC, RFD, RFW shall be applied to the production line at one time in their entirety. The contractor shall maintain the original effectivity point certification on file.

d. Supporting Data. Sufficient supporting data to evaluate the proposed change, deviation or waiver, such as drawings, supplemental drawings, sketches, specifications, or manufacturer's data sheets, shall be submitted with all actions. Figures and enclosures shall be tagged for the applicable ECP/RFD/W Block.

**e. Government approved electronic system.**

(1) All ECPs, VECs, PPEPs, RFDs and RFWs shall be developed/created in the Government approved electronic system. The contractor is responsible for insuring that electronic files are correctly tagged and graphic files are properly represented prior to delivering the electronic change action to the government. The government reserves the rights to reject file(s) or engineering change actions that are incomplete, contain errors or include files or formats that are non-compliant with the electronic system. The contractor shall be responsible for correcting and resubmitting complete electronic system documents at no cost to the Government.

(2) Reserved.

(3) The current electronic system URL is <http://acms.tacom.army.mil/Windchill/servlet/WindchillAuthGW/>. For assistance, the help line can be reached at (586) 574-5372.

(4) Final Delivery Media. Upon completion of an engineering change action, the Contractor shall submit an e-mail notification to the TACOM LTV Team, specifically [darnessn@tacom.army.mil](mailto:darnessn@tacom.army.mil). This notice shall serve as the transmittal letter and shall include the ECP/VECP/PPEP/RFD/RFW number, title, classification, contract number, and applicable names/office symbols indicating applicable distribution.

(5) Reserved.

**C.3.9 Safety Engineering:**

The Contractors Safety Assessment Program, as established under Contract DAAE07-96-D-X001 pursuant to MIL-STD-882B, Task 100 shall remain in effect during the course of this Contract.

**C.4 PREPRODUCTION EVALUATION**

a. The technical data for the configuration items as identified in Section C.3.1 has been prepared and checked in accordance with accepted engineering practices. On the basis of previous experience, however, it is reasonable to assume that such data may contain deficiencies that would preclude, from an actual or practical standpoint, the manufacture or assembly of the contract items in strict accordance with such technical data. This clause is intended to establish Contractor responsibility to review, identify, evaluate and correct any such deficiencies in such data and in any contract items resultant therefrom, as hereinafter set forth, without any equitable adjustment in contract price or delivery schedule under the "Changes" clause or any other clause except as is otherwise

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provided in this provision. By way of example only, deficiencies which would preclude practical manufacture or assembly include errors or omissions in drawings, tolerance stack ups beyond the overall specified tolerance limitations for an item, dimensions resulting in no-fit condition, requirements for material which are not readily available or suitable for production, conflicts between separate requirements of the technical data, processing requirements not suitable for production or any other condition that would constitute an actual or practical impossibility as hereinafter defined. This clause is not intended to place upon the Contractor any design responsibility under this Contract except as provided herein. At times, other non-cost changes can be made through this mechanism by mutual agreement.

b. It is reasonable to conclude that Pre-Production Engineering Proposals (PPEPs) approved by the Government, and made part of the vehicle production for the DAAE07-96-D-X001 Contract, may not have been reflected in the TDPs. During evaluation of the TDPs, the Contractor shall include a review of previously submitted and approved PPEPs for applicability. Should approved PPEP changes be found missing, the Contractor shall immediately notify the Government of the PPEP Number and the affected drawings.

**C.4.1** Definitions:

a. An "actual impossibility" is one in which the Contract cannot be performed in strict accordance with the technical data by the Contractor or any other responsible source of supply because of drawing or specification error.

b. A "practical impossibility" is one in which performance of the Contract in strict accordance with the technical data would entail extreme and unreasonable difficulties and exorbitant cost on the part of the Contractor or any other responsible source of supply.

**C.4.2** Scope:

a. During the term of this Contract, the Contractor shall perform a detailed review of the technical data furnished for the Contract items or otherwise specified by the Government as a part of the Contract as awarded and as a part of any change issued to the "Changes" clause thereafter. This review shall serve to identify, evaluate and be the basis for recommending corrective action in the form of a data change proposal, hereinafter referred to as a PPE Proposal (PPEP) in order to correct any deficiency which would preclude practical manufacture or assembly in order to assure that:

(1) The Contract items, including all components, assemblies and parts thereof can be produced, fabricated and assembled in strict accordance with the technical data, corrected as required by this clause, without resort to any deviations, waivers or changes therefrom.

(2) The quality assurance provisions are compatible with all other technical data.

(3) The engineering associated lists are compatible with all other technical data.

(4) The parts and materials required for vehicle assembly can be procured and manufactured in accordance with the applicable technical data of this contract.

b. Upon Government approval of the PPEP, as hereinafter set forth, the Contractor shall correct any described deficiency in all contract items offered for acceptance if those items are affected by the change insofar as interchangeability, function, service life, or safety are concerned.

**C.4.3** Consideration:

The price for pre-production evaluation with respect to technical data furnished as a part of the Contract as awarded is amortized in the price of the vehicles. Accordingly, the Contractor shall, without increase in contract price or extension in delivery schedule, submit for approval and implement any Government approved PPEP. The Contractor shall identify technical data deficiencies as found.

**C.4.4** Submission Requirements

a. Deficiencies disclosed in evaluation and Contractor's recommendation for change shall be prepared using the electronic system identifying the document using "PPEP" in front of the AMGxxxxx PPEP number. PPEPs shall be submitted immediately upon discovery of the need for change. The proposed change shall be clearly and explicitly stated. The Contractor shall include a complete description in the "Change From - To" format where the current drawing requirement ("from") is identified along with the proposed change ("to"). Whenever possible, the drawing zone of the existing requirement and proposed change shall be included in the description. Marked-up prints, sketches, or supporting documentation shall be electronically included.

b. The PPEP shall be accompanied by marked prints, sketches, inspection reports, calculations or other data sufficient to serve as a basis for evaluation of the proposed change. Upon Government approval, the PPEP will serve as a basis for Contract performance including production, fabrication, assembly and Government acceptance inspection. The PPEP will also be used as the basis for revision of the TDP.

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c. PPEPs shall only contain changes to one drawing unless one of the following conditions apply:

(1) The proposed changes to each drawing are identical.

(2) The changes proposed to a drawing necessitates a related change to an additional drawing or drawing(s) to maintain proper assembly, installation and or interface.

d. Each PPEP shall be assigned Government Control Number in accordance with Section C.3.8.1.c. This Control Number shall be placed in the electronic system as the document name (i.e., PPEPAMGxxxx, etc.).

**C.4.5 Approval Requirements:**

a. Government approval, rejection or revision of the PPEPs will be made by the Contracting Officer's Technical Representative (COTR) within 20 working days after receipt unless a further period of time is agreed to by both parties. Government approval or rejection of a PPEP shall be in the form of a letter from the PCO or COTR. In the event the Government fails to respond in the 20 working days period, or other such period as may be agreed upon, the PPEP shall be considered approved for purposes of this Contract.

b. Upon the Government approval of a PPEP, the Contractor's obligations as it relates to such PPEP shall be discharged to the extent that the deficiency is corrected. If such approved PPEP does not correct the deficiency, the Contractor shall yet remain responsible for resubmitting a request for further change to the technical data without increase in contract: price or extension in delivery schedule and incorporate such PPEP change as approved into any contract items.

**C.4.6 Right to Convey Information:** The Government reserves the right to convey any related PPEP information to the Contractor, however, the Contractor is not obligated to incorporate such information into production. Any such information so conveyed shall not entitle the Contractor to any price or delivery schedule adjustment or damages pursuant to any clause of this Contract or otherwise.

**C.4.7 Distribution of Contractor's PPEP:** The Contractor shall include the STS Program Management and the STS Configuration Management POC in their internal hierarchy during PPEP preparation and/or internal AMG CCB review. Upon completion of the contractor prepared PPEP, the Contractor shall submit an e-mail message to the TACOM LTV Team, specifically darnelln@tacom.army.mil, as well as the ACO and the PCO.

**C.4.8 PPEP Disputes:**

Failure of the parties to agree upon any determination of the necessity for, or the designation of, a change to be made under this provision shall be a dispute concerning a question of fact within the meaning of the "Disputes" clause of this contract.

**C.4.9 Rights and Remedies:**

The rights and remedies of the Government provided in this provision are in addition to and do not limit any right afforded to the Government by any other clause of this contract.

**C.4.10 Production Methods and Processes:**

Changes to the technical data package shall not be submitted under this clause which are recommended solely to permit performance in accordance with the Contractor's or subcontractor's production methods or processes.

**C.4.11 Changes - Value Engineering**

Changes to the technical data package shall not be submitted under this clause primarily because it would be more economical to perform. Such changes shall be submitted in accordance with the terms of the "Value Engineering" clause of this Contract.

**C.4.12 Rights in Technical Data:**

Any and all. technical data submitted by the Contractor as required in paragraph C.4.4 for which the Contractor is obligated pursuant to paragraph C.4.2 shall be provided the Government with unlimited rights in accordance with the "Rights in Technical Data and Computer Software" clause of this Contract.

**C.5 Basic Issue Items (BII) - Army:**

Vehicles shall be furnished with Basic Issue Items (BII) as described below for Army vehicles. The BII shall be overpacked in accordance with best commercial practices as further described in Section D. The Contractor shall provide the following Basic Issue Items (BII) in accordance with instructions included in Section B - Supplies/Services:

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NSN	Item Description	Qty	Model
	TM 9 2320-280-10, C1	1 ea.	ALL A2s
	TM 9-2320-280-10HR	1 ea.	ALL A2s
	TM 9-2320-387-10, C1 (when published)	1 ea.	ALL ECV
	TM 9-2320-387-10HR	1 ea.	ALL ECV
5140-00-772-4142	Bag, Tool, Envelope Type	1 ea.	ALL
P/N 12460466	Fire Extinguisher	1 ea.	ALL
6540-00-922-1200	First Aid Kit	1 ea.	ALL
2540-00-670-2459	Bag, Pamphlet	1 ea.	ALL
7510-01-065-0166	Folder Equipment Record	1 ea.	ALL
5120-00-223-7397	Pliers, Combination	1 ea.	ALL
5120-01-416-8568	MAX Tool Kit, Includes Following:	1 ea.	ALL
5110-01-416-7827	a. 1 each Ax, Single Bit, W/Handle		
5110-01-416-7830	b. 1 each Ax, Sheath		
5120-01-416-8570	c. 1 each Shovel Attachment		
5120-01-416-8573	d. 1 each Pick Attachment		
5120-01-416-8572	e. 1 each Broad Pick Attachment		
5120-01-416-8571	f. 1 each Mattock Attachment		
5120-01-416-8577	g. 1 each Rake/Hoe Attachment		
5120-01-416-8574	h. 1 each Rake/Hoe Fastener		
5120-01-416-8575	i. 6 each Safety Locking Pin		
5140-01-416-8569	j. 1 each Carrying Bag		
5120-01-375-0070	Jack, Scissors, 3 1/2 Ton, Hand	1 ea.	ALL
	Includes the following:		
5120-01-430-3123	a. 1 each Jack, Scissors		
5120-01-429-6964	b. 1 each Wrench, ratchet		
5120-01-429-6065	c. 1 each Extension, Jack Handle		
5120-01-429-8137	d. 1 each Handle, Jack		
5140-01-429-6945	e. 1 each Bag, Stowage		
5120-01-156-7296	Wrench, Wheel Lug	1 ea.	ALL
5120-00-234-8913	Screwdriver, Phillips, No. 2	1 ea.	ALL
5120-00-227-7356	Screwdriver, Flat Tip, 3/16"	1 ea.	ALL
5120-00-240-5328	Wrench, Adjustable, Open End	1 ea.	ALL
6240-00-060-4707	Bulb Kit, Spotlight Bulbs (2)	1 ea.	M997A2
4910-01-313-8839	Spreader Bar Assembly	1 ea.	M997A2
4730-00-392-2962	Adapter, Filter Unit	4 ea.	M997A2
7510-00-889-3494	Binder, Equipment Log	1 ea.	ALL
4720-00-279-0093	Hose Assembly, 6 Ft.	6 ea.	M997A2
4720-00-279-0094	Hose Assembly, 9 Ft.	1 ea.	M997A2
4720-00-269-3760	Clamp, Hose	14 ea.	M997A2*
4730-00-138-7152	Coupling half, quick	7 ea.	M997A2*
4240-00-977-8503	Connector, Orifice	7 ea.	M997A2*
4240-00-763-2464	Mask, Patient Protective	4 ea.	M997A2

\*Note: These items may be packaged as an assembly with the 6 ft. and 9 ft. hose assembly, as appropriate

C.6 Basic Issue Items (BII) - U.S. Marine Corps: The vehicles shall be furnished with Basic Issue Items (BII) as described below for USMC vehicles. The BII shall be overpacked in accordance with best commercial practices and as further described in Section D. The Contractor shall provide Basic Issue Items (BII) in accordance with the instructions included in Section B - Supplies/Services:

NSN	NOMENCLATURE	QTY	MODEL
	Vehicle		
P/N 1246046	Fire Extinguisher	1 ea.	ALL
6540-00-922-1200	First Aid Kit	1 ea.	ALL
2540-00-670-2459	Bag, Pamphlet	1 ea.	ALL
5120-00-223-7397	Plier, Combination	1 ea.	ALL
5120-01-416-8568	MAX Tool Kit, Includes Following:	1 ea.	ALL
5110-01-416-7827	a. 1 each Ax, Single Bit, W/Handle		
5110-01-416-7830	b. 1 each Ax, Sheath		
5120-01-416-8570	c. 1 each Shovel Attachment		
5120-01-416-8573	d. 1 each Pick Attachment		
5120-01-416-8572	e. 1 each Broad Pick Attachment		
5120-01-416-8571	f. 1 each Mattock Attachment		
5120-01-416-8577	g. 1 each Rake/Hoe Attachment		

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5120-01-416-8574	h. 1 each Rake/Hoe Fastener		
5120-01-416-8575	i. 6 each Safety Locking Pin		
5140-01-416-8569	j. 1 each Carrying Bag		
5120-01-375-0070	Jack, Scissors, 3 1/2 Ton, Hand	1 ea.	ALL
	Includes the following:		
5120-01-430-3123	a. 1 each Jack, Scissors		
5120-01-429-6964	b. 1 each Wrench, ratchet		
5120-01-429-6065	c. 1 each Extension, Jack Handle		
5120-01-429-8137	d. 1 each Handle, Jack		
5140-01-429-6945	e. 1 each Bag, Stowage		
5120-01-156-7296	Wrench, Wheel Lug	1 ea.	ALL
5120-00-234-8913	Screwdriver, Phillips No. 2	1 ea.	ALL
5120-00-227-7356	Screwdriver, Flat Tip, 3/16"	1 ea.	ALL
5120-00-240-5328	Wrench, Adjustable, Open End	1 ea.	ALL
5140-00-772-4142	Bag Tool	1 ea.	ALL
6240-00-060-4707	Bulb Kit, Spotlight Bulbs (2)	1 ea.	M997A2
9905-00-148-9546	Kit, Warning Device	1 ea.	ALL
4910-01-313-8839	Spreader Bar Assembly	1 ea.	M997A2
2590-01-222-7946	NATO Slave Cable	1 ea.	M1097A2
4730-00-392-2962	Adapter, Filter Unit	4 ea.	M997A2
4720-00-279-0093	Hose Assembly, 6 Ft.	6 ea.	M997A2
4720-00-279-0094	Hose Assembly, 9 Ft.	1 ea.	M997A2
4720-00-269-3760	Clamp, Hose	14 ea.	M997A2*
4730-01-138-7152	Coupling half, quick	7 ea.	M997A2*
4240-00-977-8503	Connector, Orifice	7 ea.	M997A2*
4240-00-763-2464	Mask, Patient Protective	4 ea.	M997A2

\*Note: These items may be packaged as an assembly with the 6ft. and 9 ft. hose assemble, as appropriate.

C.6.1 Reduced Basic Issue Items (BII) - U.S. Marine Corps. When specified, the vehicles shall be furnished with a reduced Basic Issue Items (BII) as described below for USMC vehicles when identified in the Section B - Supplies/Services. The BII shall be overpacked in accordance with best commercial practices as further described in Section D. This reduced BII applies to the M1123, M1043A2, M1045A2 and the M1035A2 models for the USMC.

<u>NSN</u>	<u>NOMENCLATURE</u>	<u>QTY</u>
P/N 12460466	Fire Extinguisher	1 ea
5120-01-416-8568	MAX Tool Kit, Includes Following:	1 ea.
5110-01-416-7827	a. 1 each Ax, Single Bit, W/Handle	
5110-01-416-7830	b. 1 each Ax, Sheath	
5120-01-416-8570	c. 1 each Shovel Attachment	
5120-01-416-8573	d. 1 each Pick Attachment	
5120-01-416-8572	e. 1 each Broad Pick Attachment	
5120-01-416-8571	f. 1 each Mattock Attachment	
5120-01-416-8577	g. 1 each Rake/Hoe Attachment	
5120-01-416-8574	h. 1 each Rake/Hoe Fastener	
5120-01-416-8575	i. 6 each Safety Locking Pin	
5140-01-416-8569	j. 1 each Carrying Bag	
5120-01-375-0070	Jack, Scissors, 3 1/2 Ton, Hand	1 ea.
	Includes the following:	
5120-01-430-3123	a. 1 each Jack, Scissors	
5120-01-429-6964	b. 1 each Wrench, ratchet	
5120-01-429-6065	c. 1 each Extension, Jack Handle	
5120-01-429-8137	d. 1 each Handle, Jack	
5140-01-429-6945	e. 1 each Bag, Stowage	

C.7 FSR OPTION/TRAINING

a. The Contractor shall provide experienced and qualified Field Service Representative(s) (FSR) who shall advise and make recommendations to orient and instruct Government personnel and various military agencies with respect to operation, maintenance, and repair for the equipment furnished under this contract. The FSR shall be experienced enough to diagnose problems and assist the Government in correction of the problems.

b. The Contracting Officer shall designate the times, installations, activities, and areas within which the services will be performed. The actual instructions and itineraries for the Field Service Representative shall be provided by the Procuring Contracting

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Officer in writing. However, the Contracting Officer will not supervise or otherwise direct the activities of the representative(s).

c. The unit prices for the Field Services Representative man-days are exclusive of transportation costs, subsistence, lodging, and incidental expenses.

d. In the event the final distribution of FSR effort varies significantly; that is, varies by more than 20% from the above, the Contractor shall submit a proposal for equitable adjustment within 90 days after the completion of performance under the FSR effort.

e. Man-Day of Service:

(1) A man-day of service includes any period during which the representative is delayed or prevented from performing any task, only if the delay or nonperformance is solely the fault of the Government.

(2) A man-day of service includes the initial travel time from the Contractor's facility to site of work, for travel between sites of work, and to the Contractor's facility.

(3) A man-day of service includes any time that the representative is preparing required reports, provided that such preparation is performed at the site of work; the time involved in the report preparation may be monitored and verified by the Government.

f. Any emergency leave granted is solely between the Contractor and his representative.

g. Invoices for reimbursement for service shall carry the Contractor's certification of the actual man-days/months services performed.

h. Only official U.S. holidays will be paid for by the Government in addition to the actual days worked. Vacation and other holidays, and sick leave pay, is solely between the Contractor and his representative. The Government is responsible for actual days worked by any qualified Contractor representatives. It is immaterial whether the same representative completes an assignment.

i. Each representative assigned for performance under this provision shall report status of each assignment. The status may be addressed as part of the monthly contract status meetings, or sooner if there is a potential impact.

j. The Government reserves the right to reduce the number of days service to be furnished hereunder to the extent necessary to conform to Government requirements and shall be obligated to pay only for actual services used. Each reduction in quantity shall be at the man-day rate set forth in Section B.

C.7.1 The Government may require a FSR to travel to major installations to provide training on site. Areas to be included in training sessions are operators, organizational maintenance, Direct and General Support Maintenance.

a. Training will include ALL NEW Technical upgrades and modifications to current configuration. A copy of the training package material will be provided to the Government. Training materials will be provided to the Government for review of material content. Current word processing format may be used (Microsoft Word, Powerpoint). Training will consist of classroom (20%) and hands on (80%) instruction. Based on its review of course material, the Government may coordinate with the Contractor to tailor training courses to meet specific training deficiencies/requirements.

b. The classes that will be considerations are:

- HMMWV Operator Training
- HMMWV Organizational Maintenance
- HMMWV Direct Support Maintenance
- HMMWV General Support Maintenance

C.7.2 Formal training courses held at AM General facilities in Mishawaka, IN may also be optioned.

a. Training will include ALL NEW Technical upgrades and modifications to current configuration. A copy of the training package material will be provided to the Government. Training materials will be provided to the Government for review of material content. Current word processing format may be used (Microsoft Word, Powerpoint). Training will consist of classroom (20%) and hands on (80%) instruction. Based on its review of course material, the Government may coordinate with the Contractor to tailor training courses to meet specific training deficiencies/requirements.

b. The classes that will be considerations are:

Class No.            Name

OP                      HMMWV Operator Training

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ORG HMMWV Organizational Level Maintenance  
D/S HMMWV Direct Support Level Maintenance  
G/S HMMWV General Support Level Maintenance  
4L80E Transmission and Electrical Systems  
A/S Alternator/Starter and Electrical Systems

**C.8. SCOPE OF WORK, OPTIONAL EQUIPMENT:**

The following optional equipment may be acquired to be installed or overpacked as appropriate on the HMMWV A2 vehicle. The firm-fixed prices for these items are found in Section B of the contract. When ordered, the unit price will be reflected in the unit price of the vehicle.

<u>DESCRIPTION</u>	<u>PART NO.</u>
Al Stowage Kit for M1043A2	12342463
Aft Mounted Lightweight Weapon Station	6009208
Air Conditioning	6007819
Arabic Data Plates, M1097A2	6007555
Arabic Data Plates, M1043A2	6007553
Arabic Data Plates, M1045A2	6007554
Avenger per SOW	See C.
Battery, Maintenance Free (NSN: 6140-01-456-8782)	A24FTV
Battery, Maintenance Free (NSN: 6140-01-456-8782)	A24TV
Battery, Maintenance Free (NSN: 6140-01-446-9506)	6TMF/Type II
Battery (NSN: 6140-01-441-1697)	6TLFP
Brushguard (NSN 2510-01-461-7075)	57K3490
Cold Start Kit	57K3497
Commander's Seat Credit (when overpacked)	N/A
Communication Equipment Deletion to include:	N/A
Radio Rack, P/N 12340167	
Antenna Mount Bracket, P/N 12340364 and delete all attaching hardware	
Radio Antenna Ground Strap, P/N 12338099-1	
Radio Antenna Cables, P/N 12338086-3 & 12338089-3 and Delete all attaching hardware.	
Radio Power Cable, P/N 12338088 and delete all attaching hardware	
Configuration Changes for Israeli Armor to include:	
Half Door Deletion	
Front Springs, Up-Armor	
Frame Rail Reinforcemets, ECV RCSK 17138/39	
Hinge Pillar Reinforcement, Up-Armor	
Windshield Wiper Extension	
Constant Fan Drive	6007548
Countermine Armor Kit	6007841
CTIS - Commercial	6007537
Dual Antenna Mounts	6007546
Dual Fuel Filters	5936508
Dual Oil Filters	5936557
Enhanced Air Filters	5936500
Fuel JP 8	
Glow Plug Controller	12338772
Green Paint (Solid Vehicle)	5595911
Gunners Platform	6007828
Half Doors Deleted	12339483-1 & -2
Half Doors w/Supplemental Armor	6008811, 6008812, 6008813, 6008814
Hand Throttle Kit	57K3531
Headlamp Stoneguard	5936511
Hebrew Data Plates, M1097A2/M1035A2	6007857
Infra-Red Driving Lights	6009268
Light Weight Weapon System (LWWS)	6007581 & 82
LS 61/VRC Installation Kit (NSN: 5965-01-222-1420)	A3014065

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Manuals, Equipment (HMMWV A1)	5742402
Manuals, Optional to include the following:	
Service Manual	9-2320-280-20
Service Manual	9-2320-280-34
RPSTL, DS/GS	9-2320-280-24P
Engine, Service	9-2320-237-34
RPSTL, DS/GS, Engine	9-2815-237-34P
Mattracks	105M1
Metric Gauges	5936524
NATO Slave Cable	11682379-4
Net, Cargo Retaining (NSN: 2500-01-449-2379)	
Overpack Cover (used with Commanders Seat Installed)	H-OVE-021
Protective Control Box (PCB)	12446779
Pod Box                 H-OVE-008/010/011	
Pod Box Lid	H-OVE-011
Rear Mounted Spare Tire Carrier	6007598
Rear Seats (4-Man Configuration) Green	6007534
Rear Seats (4-Man Configuration) Tan	6007533
Rear Seats, Green (Bulkshipped)	57K3196
Rear Seats, Tan (Bulkshipped)	57K3225
Rear Seats (LWWS)	6007583
Reverse Wiring Harness/Shift Assembly	TBD
Per attached C.16	
Roof Insulating and Retaining Kit	6011512
Sealed Dipsticks	6007541
Seat Belt Kit, Green (Bulkshipped)	57K3196
SINGGARS Installation Kit (NSN: 5805-1K-360-8307)	
Spare Tire with Beadlock	6007544
Spare Tire with Low Profile Runflat	6007542
Station Wagon Top	6008816
Stowage Kit	12460138
Swingaway Jerry Can	6007527
Swingaway Tire Carrier w/Jerry Can	6007596
Swingaway Tire Carrier for M1097A2	6007525
Swingaway Tire Carrier for M1025A2/ M1043A2	6007526
Tachometer/Hour Meter	57K3532
Tan Paint, M1097A2. M1113	6007516
Tan Paint, M1035A2	TBD
Tan Paint, M1045A2	6007572
Tan Paint, M1043A2	6007571
Tan Paint Overspray	SOW C-18
Tan Paint, Special for Saudi	N/A
Per Attached C.11.14	
Tire with Beadlock for Vehicle	6007544
Tire Pressure Gauge	5582524
Tire Assembly, Wrangler MT/R, 37x 12	50R17LT
Troop Seats for 2-Man Hard Top, Installed	5938070
Underbody Protection w/winch with Fuel Tank Protection, w/o CTIS	57K3492
Underbody Protection w/o winch with Fuel Tank Protection & w/o CTIS	57K3495
Underbody Protection w/winch & w/CTIS With Fuel Tank Protection	TBD
Underbody Protection w/o winch & w/CTIS With Fuel Tank Protection	TBD
Wheel Rims, 17"	
Yellow Dust Paint, Exterior Only	6007748
Per Attached C.15	
100 Amp vs 200 Amp Alternator	N/A
200 Amp Alternator Upgrade	TBD
2-Man Hard Top, Modified	TBD
2-Man Hard Top w/Closure Kit	5938072,94
4-Man Hard Top	6007576

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C.9 Scope of Work for A4 HMMWV Block Modification Upgrade Pilot Vehicles

a. Ten vehicles will be acquired for use in building the ten each A4 HMMWV pilot vehicles for Government test. The vehicles, are identified in Section B and listed below:

- 1 each M1025A2, Truck, Utility, Armament Carrier, Basic Armor
- 3 each M1097A2, Truck, Utility, Heavy Variant
- 3 each M1113, Truck, Utility, Expanded Capacity Vehicle
- 3 each ECV Chassis for M1114

b. The vehicles shall be delivered to the Government less the parts identified below and the price in Section B reflects the appropriate cost reduction:

Description	Part No.	Qty	Mat'l Cost	Each
Engine	12469080	1 each	\$5,490.00	\$7,082.44
Engine Turbo		1 each	\$6,214.00	\$7,998.85
Transfer Case	EC12447125	1 each	\$ 663.00	\$ 854.56
Fuel Tank Top Plate	EC12342746	1 each	\$ 18.00	\$ 24.36
Steering Gear	12460232	1 each	\$ 199.00	\$ 256.22
Accelerator Cable	12338360	1 each	\$ 14.00	\$ 19.15
Accelerator Pedal	12338365	1 each	\$ 0.31	\$ 0.39
Defroster Ducts				
Axles	EC123426156	2 each	\$ 552.00	\$ 710.79
Disc Brake Front LH	6002215	1 each	\$ 125.00	\$ 161.79
Disc Brake Rear LH	6002216	1 each	\$ 199.00	\$ 256.47
Disc Brake Front RH	6002217	1 each	\$ 123.00	\$ 158.76
Disc Brake Rear RH	6002298	1 each	\$ 199.00	\$ 256.47
Rotors	6002218	4 each	\$ 28.00	\$ 35.13
Brake Lines	RCSK 18434-2	1 each	\$ 8.00	\$ 10.92
Brake Lines	RCSK 18434-3	1 each	\$ 8.00	\$ 10.92
Brake Lines	RCSK 18435-2	1 each	\$ 8.00	\$ 11.39
Brake Lines	RCSK 18435-3	1 each	\$ 8.00	\$ 11.39
Master Cylinder	12342898	1 each		
Hydraboost	12342897	1 each	\$ 127.00	\$ 164.70
Parking Brake	12341899A1	1 each	\$ 96.00	\$ 124.58
Pitman Arm	EC6004838	1 each	\$ 14.00	\$ 18.46
Idler Arm	EC6004839	1 each	\$ 18.00	\$ 23.43
Ball Joint Lower	6006645	4 each	\$ 15.00	\$ 19.93
Ball Joint Upper	6007755	4 each	\$ 14.00	\$ 18.34
Centerlink	EC6003868	1 each	\$ 34.00	\$ 44.86
Wheels, Tires, Runflats	12460176	4 each	\$ 522.00	\$ 672.69
Shocks, Front	12340071	2 each	\$ 28.00	\$ 36.69
Shocks, Rear	12340072	2 each	\$ 28.00	\$ 36.69
Springs, Front	12338316-1	2 each	\$ 17.00	\$ 22.27
Springs Rear	12342616	2 each	\$ 65.00	\$ 84.13
Body Electrical Harness	12460097	1 each	\$ 371.00	\$ 477.58
Engine Electrical Harness	12446828	1 each	\$ 94.00	\$ 121.08
Speedo Cable	12338428-2	1 each	\$ 14.00	\$ 18.29
Transmission Control Modules	12469083	1 each	\$ 419.00	\$ 539.65

	VEHICLE PRICE <u>M1025A2</u>	VEHICLE PRICE <u>M1097A2</u>	VEHICLE PRICE <u>M1113</u>	VEHICLE PRICE <u>M1114</u>
DELETED ITEMS	\$15,413.36	\$ 15,413.36	\$ 16,329.87	\$ 16,329.87
TOTAL COSTS				
VEHICLE PRICE	\$69,529.15	\$ 57,995.00	\$ 62,693.09	\$ 73,139.73
DELETED ITEMS	<u>\$15,413.36</u>	<u>\$ 15,413.36</u>	<u>\$ 16,329.87</u>	<u>\$ 16,329.87</u>
VEHICLE COST	\$54,115.79	\$ 42,581.64	\$ 46,363.22	\$ 56,809.86
MINUS ITEMS				
QTY OF VEH	<u>1</u>	<u>3</u>	<u>3</u>	<u>3</u>

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EXTENDED COSTS \$54,115.79 \$127,744.92 \$139,089.66 \$170,429.58

**C.10** Scope of Work, USMC Special Requirements:

a. The following special U. S. Marine Corps requirements are itemized below.

(1) Non-Air Lift Enhanced Bumper for all variants except the M1097A2 and M997A2.

(2) Tachometer/Hour Meter, Part No. 6011547, will be installed on the M1097A2 and the M997A2 HMMWV only, but will be available as an option for other vehicle configurations.

(3) Brushguard, Part No. 57K3490, are required for all USMC vehicles, unless otherwise directed by contract modification.

(4) 200 Amp Alternator will apply to all US Marine Corps variants.

b. In addition to the above USMC requirements, all vehicles shall be provided with the following Deep Water Fording items:

<u>Dwg/Part No.</u>	<u>Revision</u>	<u>Nomenclature</u>	<u>Material</u>
EC12339849	C*	Exhaust, Fording	Assembly Drawing
EC12338348	A*	Flange	439 Stainless Steel
EC12338349	A*	Heat Shield	439 Stainless Steel
EC12339835	A*	Bracket Assy	439 Stainless Steel
EC12339834	A-	Bracket	439 Stainless Steel
EC12339826	A-	Gusset	439 Stainless Steel
MS90728-61		Bolt	w/Dorrltech (2)#
EC12339837	A*	Flange	439 Stainless Steel
EC12339838	A*	Shield (Expanded Metal)	304 Stainless Steel
EC12339849-1	C*	Pipe	439 Stainless Steel
9417793		Washers	Cad Plated (2)#
5705703		M997A2 DWF Kit	Supplemental Kit Drawing

Note#1: Items marked with a "#" in the materials column are to be overpacked along with the DWF stack.

Note#2: The Deep Water Fording Stack, Part No. EC12339849, will apply to all USMC variants except for M997A2.

Note#3: The Deep Water Fording Stack, Part No. 5705703, will apply to the M997A2 USMC variant only.

c. All USMC variants will have the Glow Plug Controller, Part No. 12338772, and Protective Control Box, Part No. 12446779, installed on each vehicle. These items will be furnished by the Government until otherwise advised.

d. Vehicles shall be produced with weapon station and bearing revision included in Change Letter A7.

**C.11** Scope of Work - ECV Chassis/M1116 Configuration:

a. ECV Chassis for the M1116 configuration will be manufactured the same as the ECV Chassis for the M1114 less armor components.

b. The packing material requirement is the same as on the ECV Chassis for the M1114 vehicle except quantities are reduced by 1 each.

c. Seats, seat bases and energy absorbing bracket will be shipped loose installed, as is currently done for the ECV Chassis M1114 configuration.

d. The quantity of ECV Chassis produced in accordance with the SOW shall be built less the parts identified in the Attachment 8 to this Scope of Work.

e. Drawing RCSK 18507 entitled M1116 Additional OVE (Items Shipped Loose), as modified, identifies the parts to be overpacked in the vehicle prior to shipment.

**C.12.** Avenger Modification Scope of Work

a. The Contractor shall modify the M1097A2 to the AVENGER configuration as set forth below:

b. The windshield and frame assembly shall be the Ballistic windshield and frame assembly, Drawing No. 12446872-3,

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Windshield Installation.

- c. The upper frame assembly, Part No. 12338810, and upper frame retainer, Part No. 12338818, shall not be installed on the Windshield Assembly, Part No. 12446877-1.
- d. Front Ballistic doors shall be installed in accordance with RH, Part No. 12339480-1 and LH., Part No. 12339480-2.
- e. Clevis mounting vehicle windshield, Part No. 12340116 and Associated Mounting shims IAW Part No. 12340099-3, Part No. 12340099-4 and Part No. 12340099-5 shall not be installed on Windshield Assembly, Part No. 12446877-1.
- f. The following parts shall not be installed since they have no AVENGER function:
- |                     |                                |
|---------------------|--------------------------------|
| Part No. 12338090-1 | Radio and Antenna Cables Inst. |
| Part No. 12339036-1 | Panel, Cab Enclosures L.H.     |
| Part No. 12339233-1 | Tailgate Inst.                 |
| Part No. 12460135   | Radio Rack Inst.               |
| Part No. 12342676   | Auxiliary Power Supply Inst.   |
| Part No. 12447141   | Panel, Cab Enclosure R.H.      |
- g. The M1097A2 b-pillar assembly shall be of the same configuration as the present M998 b-pillar assembly without turn buttons installed.
- h. The M1097A2 will be produced with A2 Driver's seat except lower seat back (Part No. TBD) and commander seat to be Assembly 5934621.
- i. The Transmission Control Module (TCM) shall be relocated from its current position in the rear L.H. seat to the location behind the drivers seat. Current underbody insulation will be modified by cutting a new hole for the wiring harness by the B-beam and leaving the existing hole in tact. Extra harness will be re-routed under the vehicle or rolled up and secured behind the driver's seat.

**C.13 SCOPE OF WORK FOR TAN OR WHITE OVERSPRAY:**

- a. This Scope of Work is established to provide instructions for overspraying vehicles from 383 Camouflage Green to 686 Tan or white.
- b. The exterior surface only will be painted with the following special instructions:
- (1) The body interior along with components such as insulation, seats, steering, dash panel, controls, heater, close-out covers, b-pillar, tailgate, kit/stowage components and windshield interior will remain green or the color specified for a green vehicle.
  - (2) The paint break line will be at the door openings and the bottom of the side panels. Vehicle acceptance of color change to be determined from a distance of 10 feet.
  - (3) Minimum overspray will be allowed on the chassis and tires.
  - (4) The exchange of the rearview mirrors removed from the current BII Box will be replaced with tan mirrors for tan units only.

**C.14. Scope of Work for Yellow Dust Paint on New Production Vehicles:**

- a. This Scope of Work is established to provide instructions for painting HMMWVs with color Yellow Dust. The body interior and exterior surfaces along with windshield frame, B-pillar and tailgate will be painted yellow dust with the following special instructions:
- (1) The interior components such as insulation, seats, steering, dash panel, controls, heater, close-out covers, and kit/stowage components will remain green or the color specified for a green vehicle.
  - (2) Minimum overspray will be allowed on the chassis and tires.
  - (3) Vehicle acceptance of color to be determined from a distance of 10 feet.
- b. Surface Preparation and Application: Treated surface, cleaned, dried and primed as normally done for MIL-46168coatings.
- c. It is highly resistant to chemicals and UV and will pass the performance requirements of ML-C-46168D. It will meet the color and gloss requirements as outlined in the Government of Israel (G.O.I) test for the I.D.F. HMMWV letter dated December 28, 1995.

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d. The Contractor shall provide certification to compliance of the paint specification to include modification to coordinate c above prior to vehicle production.

**C.15 SCOPE OF WORK FOR ARABIC TECHNICAL MANUALS:**

The following manuals to be three-hole punched. Covers are card stock, buff color.

<u>TM Number</u>	<u>Contents</u>
TM 9-2320-280-10	Operators Manual
TM 9-2320-280-20-1	Unit Maintenance Vol 1 (Includes 16 Each 11 1/2 x 17 Foldouts)
TM 9-2320-280-20-2	Unit Maintenance Vol 2
TM 9-2320-280-20-3	Unit Maintenance Vol 3 (Includes 9 Each 11 1/2 x 36 Foldouts)
TM 9-2320-280-34	Direct - General Support Maintenance
TM 9-2320-280-24P-1	Repair Parts Vol 1 (English Numbers)
TM 9-2320-280-24P-2	Repair Parts Vol 2 (English Numbers)
TM 9-2815-237-34	Direct - General Support Maintenance (Engine)
TM 9-2815-237-34P	Direct - General Support Repair Parts (Engine)

**C.16 SCOPE OF WORK FOR REVERSE WIRING HARNESS/SHIFT ASSEMBLY: (applies to all vehicle variants except M1035A2 where it is included)****a. Add the following material:**

Description	Part No.
Harness Assembly - Body	12460099
Shift Control Assembly	12460112
Tail Lamp Jumper	12339324

**b. Delete the following material:**

Description	Part No.
Harness Assembly - Body	12460097
Shift Control Assembly	12460111

\*\*\* END OF NARRATIVE H 001 \*\*\*