

2. Amendment/Modification No. 05	3. Effective Date 2004APR20	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By TACOM WARREN BLDG 231 SFAE-GCS-W-BCTP JENNY STERBA (586)753-2078 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: STERBAJ@TACOM.ARMY.MIL	Code	W56HZV	7. Administered By (If other than Item 6) DCMA DAYTON AREA C, BUILDING 30 1725 VAN PATTON AVENUE WRIGHT PATTERSON AFB, OH 45433-5302	Code	S3605A
			SCD C PAS NONE ADP PT HQ0337		

8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) MIL-MAR CENTURY CORP 7883 NORMANDY LANE DAYTON, OH. 45459 TYPE BUSINESS: Small Disadvantaged 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-D-B001/0011
	<input type="checkbox"/>	10B. Dated (See Item 13) 2003NOV13
Code 2X262	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)
SEE SECTION G

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

KIND MOD CODE: G

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:	
<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) SANDRA E. MCCARROLL MCCARROS@TACOM.ARMY.MIL (586)753-2072		
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 2004APR20

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 2 of 16****PIIN/SIIN** DAAE07-01-D-B001/0011**MOD/AMD** 05**Name of Offeror or Contractor:** MIL-MAR CENTURY CORP

SECTION A - SUPPLEMENTAL INFORMATION

1. This modification 05 to Delivery Order 0011 under Contract DAAE07-01-D-B001 is a bilateral agreement.
2. The purpose of this modification is to procure 54 Tow Bar sets for the 172nd Stryker vehicles and 50 Tow Bar sets for spares, and 38 Tow Bar Sets for Alaska.
3. CLIN 0302AJ is added to Section B and is funded in the amount of \$191,592 for the purchase of 54 Tow Bar sets for the 172nd Stryker vehicles.
4. CLIN 0302AK is added to Section B and is funded in the amount of \$177,400 for the purchase of 50 Tow Bar sets to be used as spares.
5. CLIN 0302AL is added to Section B and is funded in the amount of \$134,824 for the purchase of 38 Tow Bar sets for Alaska.
6. The requirements in Section C are added for this modification.
7. The requirements in Section D are added for this modification.
8. The requirements in Section E are added for this modification.
6. The contractor shall notify the Government if there is a change in their welding source since the award of Modification 01 under Delivery Order 0011, or if there is a change during the performance of this modification. If there is a change in the welding source, the Government reserves the right to conduct additional inspections and tests prior to acceptance of any Tow Bar component containing welds.
7. The total amount obligated under Delivery Order 0011 to Contract DAAE07-01-D-B001 is increased by \$503,816.
8. Except as stated herein, all other terms and conditions of Delivery Order 0011 remain unchanged and in full force and effect.

*** END OF NARRATIVE A 006 ***

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 PIIN/SIIN DAAE07-01-D-B001/0011 MOD/AMD 05

Name of Offeror or Contractor: MIL-MAR CENTURY CORP

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT																											
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS																															
0302	NSN: 9999-99-999-9999 FSCM: 00000 PART NR: 57K3403 SECURITY CLASS: Unclassified																															
0302AJ	<p><u>PRODUCTION QUANTITY</u></p> <p>NOUN: TOW BAR SETS (54)(FT LEWIS PRON: X13GX374X1 PRON AMD: 01 ACRN: AB AMS CD: 31107180008</p> <p>CLIN ADDED BY MODIFICATION 05</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p> <p>DOC SUPPL</p> <table border="1"> <thead> <tr> <th>REL CD</th> <th>MILSTRIP</th> <th>ADDR</th> <th>SIG CD</th> <th>MARK FOR</th> <th>TP CD</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>W909534106H374</td> <td>W91A2N</td> <td>J</td> <td></td> <td>1</td> </tr> </tbody> </table> <p>PROJ CD BRK BLK PT EAL</p> <table border="1"> <thead> <tr> <th>DEL REL CD</th> <th>QUANTITY</th> <th>DEL DATE</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>9</td> <td>11-JUN-2004</td> </tr> <tr> <td>002</td> <td>20</td> <td>18-JUN-2004</td> </tr> <tr> <td>003</td> <td>20</td> <td>25-JUN-2004</td> </tr> <tr> <td>004</td> <td>5</td> <td>02-JUL-2004</td> </tr> </tbody> </table> <p>FOB POINT: Origin</p> <p>SHIP TO: <u>PARCEL POST ADDRESS</u> (W91A2N) XR W4GG FT LEWIS FLD OFC BLDG 9630 L ST FORT LEWIS WA 98433-5000</p> <p><u>CONTRACT/DELIVERY ORDER NUMBER</u> DAAE07-01-D-B001/0011</p>	REL CD	MILSTRIP	ADDR	SIG CD	MARK FOR	TP CD	001	W909534106H374	W91A2N	J		1	DEL REL CD	QUANTITY	DEL DATE	001	9	11-JUN-2004	002	20	18-JUN-2004	003	20	25-JUN-2004	004	5	02-JUL-2004	54	EA	\$ 3,548.00000	\$ 191,592.00
REL CD	MILSTRIP	ADDR	SIG CD	MARK FOR	TP CD																											
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Name of Offeror or Contractor: MIL-MAR CENTURY CORP

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT																																				
0302AK	<p><u>PRODUCTION QUANTITY</u></p> <p>NOUN: TOW BAR SETS (50) AUBURN WHSE PRON: X12GX280X1 PRON AMD: 01 ACRN: AC AMS CD: 31107180008</p> <p>CLIN ADDED BY MODIFICATION 05</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u> DOC SUPPL <table border="1"> <thead> <tr> <th>REL CD</th> <th>MILSTRIP</th> <th>ADDR</th> <th>SIG CD</th> <th>MARK FOR</th> <th>TP CD</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>W909534106H280</td> <td>CKORK3</td> <td>J</td> <td></td> <td>1</td> </tr> <tr> <td></td> <td><u>PROJ CD</u></td> <td><u>BRK BLK PT</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>EAL</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>DEL REL CD</th> <th>QUANTITY</th> <th>DEL DATE</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>17</td> <td>23-JUL-2004</td> </tr> <tr> <td>002</td> <td>20</td> <td>30-JUL-2004</td> </tr> <tr> <td>003</td> <td>13</td> <td>06-AUG-2004</td> </tr> </tbody> </table> <p>FOB POINT: Origin</p> <p>SHIP TO: <u>PARCEL POST ADDRESS</u> (CKORK3) XR GM GDLS DEFENSE GROUP LLC GSA WAREHOUSE 1 2701 C STREET W AUBURN WA 98001-1111</p> <p><u>CONTRACT/DELIVERY ORDER NUMBER</u> DAAE07-01-D-B001/0011</p> </p>	REL CD	MILSTRIP	ADDR	SIG CD	MARK FOR	TP CD	001	W909534106H280	CKORK3	J		1		<u>PROJ CD</u>	<u>BRK BLK PT</u>					EAL					DEL REL CD	QUANTITY	DEL DATE	001	17	23-JUL-2004	002	20	30-JUL-2004	003	13	06-AUG-2004	50	EA	\$ 3,548.00000	\$ 177,400.00
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001	17	23-JUL-2004																																							
002	20	30-JUL-2004																																							
003	13	06-AUG-2004																																							
0302AL	<p><u>PRODUCTION QUANTITY</u></p> <p>NOUN: 38 TOW BAR KITS FOR 172ND, AK PRON: W14GXR01X1 PRON AMD: 01 ACRN: AE AMS CD: 1120500000 CUSTOMER ORDER NO: MIPR4CBDEK4002</p> <p>CLIN ADDED BY MODIFICATION 05</p> <p>(End of narrative B001)</p>	38	EA	\$ 3,548.00000	\$ 134,824.00																																				

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u> DOC SUPPL <u>REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD</u> 001 W909534105R001 Y00000 M 3 <u>DEL REL CD QUANTITY DEL DATE</u> 001 15 02-JUL-2004 002 20 16-JUL-2004 003 3 23-JUL-2004</p> <p>FOB POINT: Origin</p> <p>SHIP TO: <u>PARCEL POST ADDRESS</u> (Y00000) SHIPPING INSTRUCTIONS FOR CONSIGNEE (SHIP-TO) WILL BE FURNISHED PRIOR TO THE SCHEDULED DELIVERY DATE FOR ITEMS REQUIRED UNDER THIS REQUISITION.</p> <p><u>CONTRACT/DELIVERY ORDER NUMBER</u> DAAE07-01-D-B001/0011</p>				

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT
STATEMENT OF WORK

1. Material Review Board (MRB). The contractor shall conduct a MRB that includes the in-plant Government representative. This board is responsible for disposition of minor nonconforming material (product, processes, etc.). Authority to approve all MRB decisions involving repair, use-as-is material, and non-standard repair procedures will be at the discretion of the Government procuring activity. Both standard and non-standard repair procedures shall include instructions for reprocessing material after repair and shall specify all contractor inspections required. The contractor shall not consider a new standard or nonstandard repair process until all assignable causes of variance of omitted processes (or process steps) have been eliminated and corrected. The Government's review or concurrence of a repair technique shall not bar the Government's right to reject the material if the Government determines that the repair does not adequately correct the nonconformity.

*** END OF NARRATIVE C 002 ***

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SECTION D - PACKAGING AND MARKING

SECTION D: PACKAGING AND MARKING

D.1 PRESERVATION AND PACKAGING

D.1.1 The preservation, packing, and marking requirements shall be accomplished in accordance with the performance requirements defined herein.

D.1.2 Preservation, packaging, packing, unitization and marking furnished by the supplier shall provide protection for a minimum of one year and meet or exceed the following requirements. It also provides for multiple handling, redistribution and shipment by any mode.

D.1.3 Items shall be free of dirt and other contaminants which would contribute to the deterioration of the item or which would require cleaning by the customer prior to use. Coatings and preservatives applied to the item for protection are not considered contaminants.

D.1.4 Items susceptible to corrosion or deterioration shall be provided protection by means of preservative coatings, volatile corrosion inhibitors, desiccants, water proof and/or water vapor proof barriers.

D.1.5 Items requiring protection from physical and mechanical damage (e.g. fragile, sensitive, material critical) or which could cause physical damage to other items, shall be protected by wrapping, cushioning, pack compartmentalization, or other means to mitigate shock and vibration to prevent damage during handling and shipment.

D.1.6 Unit package shall be so designed and constructed that it will contain the contents with no damage to the item(s) and with minimal damage to the unit pack during shipment and storage.

D.1.7 Unit package quantity shall consist of one (1) kit each.

D.1.8 Unit container shall be a wood container designed and fabricated to ensure domestic delivery of a complete kit. Container closure shall be in accordance with container specification. In addition to container closure procedures, ASTM D 3953 steel banding shall be applied widthwise at three (3) distinct but equal distant locations along lengthwise direction of wood container. Also, each wood container shall contain 3 wood skids for mechanical handling. Unit container is the shipping container.

D.1.9 The shipping container shall be cost effective and maintain a minimum cube to contain and protect the kit contents. The shipping container (including any necessary blocking, bracing, cushioning, or waterproofing) shall comply with the regulations of the carrier used and shall provide safe delivery to the destination at the lowest tariff cost. The shipping container shall be capable of multiple handling, stack at least four (4) high, and storage under favorable conditions (such as enclosed facilities) for a minimum of one year.

D.1.10 Shipments of identical kits going to the same destination shall be loaded to ensure stability, and to the greatest extent possible, provide a level top for ease of stacking. The load shall be contained in a manner that will permit safe handling during shipment and storage.

D.2 MARKING

D.2.1 Unit containers shall be marked in accordance with MIL-STD-129, Revision P, dated 15 Dec 2002, including bar coding. The contractor is responsible for application of special markings as discussed in the Military Standard regardless of whether specified in the contract/order or not. Special markings include, but are not limited to, Shelf-life markings, structural markings, and transportation special handling markings. The marking of pilferable and sensitive materiel will not identify the nature of the materiel.

D.2.2 Contractors and vendors shall apply identification and address markings with bar codes in accordance with this standard. A Military Shipment Label (MSL) is required for all shipments except contractor to contractor. The MSL will include both linear and 2D bar codes per the standard. DVD shipment documentation must also be marked with additional bar codes. The DD Form 250 or the commercial packing list shall have additional issue/receipt bar coding applied as per Direct Vendor Delivery Shipments in the standard (except for deliveries to DLA Distribution Depots, e.g. New Cumberland, San Joaquin, Red River, Anniston).

D.2.3 Contractor to contractor shipments shall have the address markings applied to the identification marked side of the exterior shipping container or to the unitized load markings. The following shall be marked "FROM: name and address of consignor and TO: name and address of consignee".

D.2.4 Military Shipping Label: Military Shipment Labels may be created using the Computer Automated Transportation Tool Military Shipment Label/Issue Receipt Release Document (CATT MSL/IRRD). See the web site: <http://www.asset-trak.com/catt/catt.htm>. The software may be downloaded at: http://www.asset-trak.com/catt/msl_irrd/msl_irrddownload.htm. Be sure to bookmark this page for future releases of CATT MSL/IRRD.

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SECTION E - INSPECTION AND ACCEPTANCE

<u>Status</u>	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
E-1	52.246-2	INSPECTION OF SUPPLIES--FIXED-PRICE	AUG/1996
E-2	52.246-3	INSPECTION OF SUPPLIES - COST REIMBURSEMENT	MAY/2001
E-3	52.246-5	INSPECTION OF SERVICES - COST-REIMBURSEMENT	APR/1984
E-4	52.246-8	INSPECTION OF RESEARCH AND DEVELOPMENT -- COST-REIMBURSEMENT	MAY/2001
E-5	52.246-16	RESPONSIBILITY FOR SUPPLIES	APR/1984
E-6	TACOM	SUPPLEMENTAL STATEMENT OF WORK: FASTENER QUALITY ASSURANCE REQUIREMENTS	SEP/1992

(a) This clause establishes quality assurance requirements for all threaded steel fasteners of Grade 5 and higher (as defined by SAE-J429) and metric fasteners with strength designations of 8.8 and higher (as defined by J-1199) that are to be used in items procured from either a Government or contractor owned Technical Data Package. It applies to fasteners received (i) from fastener manufacturers, (ii) from distributors, or (iii) as part of a subassembly for use in both new and repair items.

(b) The contractor shall implement and maintain a fastener quality assurance program which:

(i) Assures the homogeneity of fastener lots. A homogeneous fastener lot is defined as one in which all of the fasteners are of the same size, type, grade, plating and manufacturer.

(ii) Ensures that individual fasteners are identified by a fastener manufacturer symbol (logo). The manufacturer's symbol (logo) shall be listed in MIL-HDBK 57, dated 29 Sep 89.

(iii) Provides objective quality evidence that the fasteners to be furnished under this contract meet all technical requirements.

(c) To determine the conformance of the fastener lots with the homogeneity and identification requirements, a sample from each lot of fasteners will be taken in accordance with MIL-STD-105, dated 10 May 89, Inspection Level II, AQL 1.0, or equivalent, except that lots shall be accepted with zero (0) defects (C=0) and rejected with one (1) or more defects. Each sample shall be examined for the following:

(i) The grade and manufacturer symbol (logo) for each bolt in the lot sample shall be the same.

(ii) Threads shall be examined to assure conformity to requirements.

(iii) Plating (when specified) shall be examined to assure complete coverage.

(d) Objective quality evidence that fasteners meet all technical requirements shall consist of either:

(i) Favorable chemical, core hardness, plating and tensile test data provided by the manufacturer or supplier of a fastener lot which is directly traceable to that lot. Chemical tests shall include, as a minimum, percent by weight of the following elements: carbon, manganese, phosphorus and sulfur;

or

(ii) Favorable results of chemical and core hardness tests performed by the contractor or a subcontractor on sample(s) taken from the lot. Sampling for chemical, plating and core hardness testing shall be in accordance with MIL-STD-105, Level S-2, AQL 1.0 or equivalent. Chemical tests shall include, as a minimum, percent by weight of the following elements: carbon, manganese, phosphorus and sulfur.

(e) For item(s) procured using a Government Technical Data Package, Grade 8.1 or 8.2 fasteners are not an acceptable substitute for Grade 8 fasteners.

(f) Commercial items, defined as an end item or component of an end item whose sales volume to the general public is greater than 50% of the items produced, will be deemed to meet the requirements of this clause if the contractor has a current vendor control policy with regard to fasteners.

Note: During maintenance or repair, the Government will use Grade 8, zinc plated bolts from Government stocks as replacements for any Grade 5 or Grade 8.2 bolt used in commercial items.

(End of clause)

E-7	52.211-4016 (TACOM)	CARC PAINT-PRETREATMENT REQUIREMENTS FOR FERROUS AND GALVANIZED SURFACES	SEP/2002
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(a) Ferrous and galvanized surfaces shall be cleaned and pretreated with a Type 1, microcrystalline, zinc phosphate system per TT-

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C-490. Alternate pretreatment systems for ferrous substances must meet the performance tests specified in paragraphs 3.5.7, 3.5.8, 4.2.7, and 4.2.8 of TT-C-490. Corrosion resistance tests will be conducted on a monthly basis (two test coupons) after the process has been found to be in statistical control. Process control tests for alternative systems must ensure that the process remains in control and must be documented and approved by TACOM. Testing must be performed on the same substrate and the same thickness of primer minus topcoat used in production. Unless otherwise specified, MIL-P-53022 and -53030 primers shall be salt spray tested for 336 hours. All electrocoat primers shall be tested for 1000 hours. Test coupons shall be scrapped with a one inch (approximate) metal blade such as a putty knife between 24 and 168 hours after removal from the neutral salt spray cabinet for coupon evaluation. Any inorganic crystalline pretreatment is limited to a maximum build equivalent of 500 mg. per square foot to minimize chipping of the CARC system. All TT-C-490, zinc phosphate pretreatment systems must be documented and approved by the procuring activity prior to use. The procedure containing all the elements specified in paragraph 3.2 of TT-C-490 shall be submitted to the procuring activity no less than 45 days prior to use. Qualification will consist of verification that the process with its controls can meet the performance requirements in the specification. The performance of alternate systems must be demonstrated and approved by the procuring activity. If the TT-C-490 Type 1 system has not been previously approved by TACOM, it must be documented and submitted for approval as specified in the specification. Zinc phosphate systems for galvanized substrates require separate qualification. A list of TACOM approved facilities is available at <http://contracting.tacom.army.mil/engr/eng.htm>. These facilities are capable of meeting the performance requirements in the specification.

A list of previously qualified zinc phosphate application facilities is available from TACOM, Materials Engineering Team, (810) 574-5083. Requalification of the process will be required if the process is changed outside the limits defined in the TACOM letter of system acceptance provided to the application facility.

(b) Qualification of pretreatment systems for galvanized substrates shall be performed using Accelerated Corrosion Test protocol contained in GM 9540P, Method B, rather than salt spray. Test coupons with primer only shall be cured for seven days, and scribed thru the primer. After 40 cycle test exposure, the test coupons shall be scraped at a 30 degree contact angle (approximate) with a one inch (approximate) metal blade, such as a putty knife, both parallel and perpendicular to the scribe. There shall be no more than 3 mm. of rust creep (zinc corrosion products), blistering, or loss of paint adhesion from the scribe line and no more than 5 blisters in the field with non greater than 1 mm. This test shall be performed at two month intervals (two test coupons) to ensure that the process is in control. An alternative test for verifying process control is GM 9511P for 10 cycles.

(c) Performance tests for process control are highly dependent on the type, thickness, and VOC level of the organic coating (primer) film and its adhesion to the substrate. Any change to the solvents used in the primer or changing the brand of primer will require retesting of the system. The test coupons must duplicate the production painting process as closely as possible. Primer test coupons shall represent both the minimum and maximum nominal dry film thickness. Due to the wide variation in zinc thickness with the hot dip galvanizing process, the dry film thickness of the primer will be verified with a Tooke gage or equivalent for the purpose of production and process control.

(d) The use of vinyl wash primer (DOD-P-15328) is prohibited due to its hexavalent chromium content and high VOC level.

(e) For this effort the following alternate process for pre-treatment and painting may be used.

Surface Pre-treatment: All surfaces shall be cleaned and pre-treated per Method I of TT-C-490.

Zinc Primer: A zinc rich primer (85% zinc or higher) per paint supplier recommendations, and procedures.

[End of Clause]

E-8 52.211-4030 BASIC APPLICATION AND TESTING REQUIREMENTS FOR CHEMICAL AGENT JAN/2003
(TACOM) RESISTANT COATINGS (CARC) ON METALLIC SURFACES

(a) Scope: The requirements contained herein apply whenever any or all of the following specifications are cited in the contract: MIL-C-46168, MIL-C-53039, MIL-PRF-22750, or MIL-DTL-64159.

(b) CARC Primers: The preferred CARC primer for all applications is cathodic, epoxy electrocoat per MIL-C-53084. This primer can be directly substituted whenever MIL-P-53022 or MIL-P-53030 is specified on a drawing or specification. The dry film thickness table below contains mandatory minimum and maximum dry film thickness requirements. Failure of production painted hardware to comply with these ranges will dramatically impact the corrosion resistance and/or chip resistance of the CARC coating system. If the contractor does not possess the personnel or equipment to meet these mandatory thickness requirements, then cathodic epoxy electrocoat must be used. Any part that has rust, heat treat or mill scale must be abrasive blasted prior to the application of any coating. Select powder coat primers which have 0.0 VOCs and 0.0 HAPS can also be used as a direct replacement for MIL-P-53022 and MIL-P-53030 primers. These powder coat primers, however, can only be applied by TACOM-approved applicators. The qualification and application of these primers is controlled by "Performance Standard for Combat Grade Powder Coat Paint - U.S. Army - TACOM" and is available at <http://contracting.tacom.army.mil/engr/eng.htm>

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(c) CARC Application: The dip application of any coating listed in the table below (with the exception of epoxy electrocoat which is specifically designed for dip application) is prohibited.

(d) End-Item Inspection. After the complete paint finish has been applied and cured* (See note below), the Contractor shall test and inspect two units per lot for (i) workmanship, (ii) total paint film thickness and (iii) paint adhesion. Unless otherwise agreed to between the Contractor and the cognizant Government quality assurance representative, a lot shall be defined as all units submitted for final Government acceptance at one time. The use of test panels in lieu of actual production units is prohibited. At final inspection, the cumulative total paint film thickness of pretreatment, primer, and topcoat shall at a minimum conform to the sum of the minimum thicknesses for individual elements of the paint finish as specified in Table I herein. Sufficient locations shall be spot-checked to ensure proper workmanship and paint thickness uniformity. The size and configuration of the unit as well as the number of vendors responsible for the paint finish of component parts shall be taken into consideration in determining the number of locations to be checked. The specific number of test locations shall be agreed to by the cognizant Government quality assurance representative in advance. In addition, two locations on each sample unit shall be selected to conduct the scribe tape test. The test locations shall be routinely varied among the following:

- (1) Directly adjacent to a weld.
- (2) On or directly adjacent to a machine cut or sheared edge.
- (3) On any mechanically formed surface when lubricants/drawing compounds were used.
- (4) On paint touch-up areas.

The precise location for each scribe tape shall be in an inconspicuous location that has been accepted by the cognizant Government quality assurance representative before the test is conducted.

Upon completion of the scribe tape test, the scribe marks shall be feathered into the adjacent area and touched up with the required top coat so that the tested area again conforms to the applicable minimum specified in Table I herein.

*NOTE: The complete paint finish is defined as the pretreatment, primer, and topcoat applied to the substrate. Curing of the complete paint finish is dependent upon temperature, humidity, and paint film thickness. The time necessary to achieve sufficient adhesion to pass the scribe tape test must be determined by each facility. For purposes of this test, curing at ambient temperature will take 24 days. To accelerate the curing for purposes of product acceptance, the following procedure may be followed: Cure at 190 to 210 degrees F. for three hours (this is time at temperature and is therefore material thickness dependent), followed by 7 days at 65 degrees F. minimum.

(e) Test Methods:

(1) Film Thickness. Film thickness shall be verified with a nondestructive film gage. The gage shall be suitable for measurements over the applicable substrate material and shall have sufficient accuracy to ensure compliance to the thickness limitations. The gage shall be capable of being calibrated. If no other calibration specification or requirement is identified elsewhere in this contract, then the gage shall be calibrated in accordance with ISO 10012.

(2) Scribe Tape Test. The following test procedure shall be followed. The test surface shall be sufficiently warm and dry to ensure adhesion of the tape. All dimensions cited in this Scribe Tape Test description are approximate:

(a) Scribe four one-inch lines completely through the paint finish to the substrate, one sixteenth to three thirty-seconds of an inch apart.

(b) Scribe four additional one-inch lines, completely through the paint finish, one sixteenth to three thirty-seconds of an inch apart, rotated 90 degrees with respect to the first set of lines. The resulting pattern shall contain nine squares.

(c) Press a length of A-A-1830, A-A-884, or any commercially available tape with a minimum adhesion rating of 45 oz. per inch of width firmly over the scribed pattern, rubbing out all air pockets.

(d) Wait ten seconds, minimum. Grasp a free end of the tape and at a rapid speed strip it from the paint surface by pulling the tape back upon itself at 180 degrees.

NOTE: The above two tests are not a substitute for corrosion test such as neutral salt spray or accelerated corrosion tests which verify coating durability.

(f) Acceptance Criteria:

(1) Film Thickness. All applicable surfaces shall have complete paint coverage. A minimum of 75% of the applicable surfaces of each test unit shall meet the minimum, cumulative dry film thickness requirements. Failure of either test unit shall result in rejection of the production lot that it represents.

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DRY FILM THICKNESS TABLE

SPECIFICATION	DRY FILM THICKNESS (Mils) (MANDATORY RANGE)
DOD-P-15328*	0.3 - 0.5
MIL-PRF-23377	1.0 - 1.5
MIL-P-53022, Type I	1.0 - 2.5
MIL-P-53022, Type II	1.5 - 2.5
MIL-P-53030	1.5 - 2.5
MIL-P-53084	0.8 - 1.5
MIL-C-22750	1.3 - 2.5
MIL-C-46168	1.8 MINIMUM
MIL-C-53039	1.8 MINIMUM
MIL-DTL-64159	1.0 MINIMUM

* May not be allowed per contract due to VOC and hexavalent chromium content.

(2) Scribe Tape Test (Adhesion). The removal of two or more complete squares of top coat, or top coat-primer-pretreatment coating, from either test unit constitutes test failure and the production lot from which it comes is rejected. Removal of overspray does not constitute test failure.

NOTICE: The scribe tape test is designed to detect any major deficiency in the paint application process that would affect the durability of the CARC finish. Typical causes of failure are:

- (a) Inadequate cleaning of the substrate.
- (b) Contamination of the surface between coatings.
- (c) Excessive paint film thickness in a single coating application.
- (d) Application of a coating over a previous coating which has not been adequately cured.

[End of clause]

E-9 52.211-4069 WELDING INSPECTION REQUIREMENTS MAR/2001
(TACOM)

(a) INSPECTION: As the contractor, during performance of this contract you will verify weld quality and workmanship using qualified inspectors trained to perform these inspection functions. Acceptable qualification of your inspectors may be based on:

- (1) current or previous certification as an AWS Certified Welding Inspector; or
- (2) current or previous certification by the Canadian Welding Bureau (CWB); or

(3) inspection performed by an engineer or technician who is competent in the use of weld inspection techniques and equipment, on the basis of (i) formal training or (ii) experience, or both, in metals fabrication, inspection, and testing.

(b) NON BALLISTIC VISUAL INSPECTION. You will perform all non-ballistic visual inspections of weld quality and workmanship for structural steel in accordance with Section 6 of AWS D1.1-96. For structural aluminum, you may perform non-ballistic visual inspections of weld quality and workmanship using the guidelines given in MIL-STD-370A, dated 21 Sep 93.

(c) BALLISTIC VISUAL INSPECTION. You will perform all ballistic visual inspections in accordance with section 6 of the UDLP/TACOM Ground Combat Vehicle Code--Aluminum, dated July 1996. Copies of this document can be obtained by written request to:

Commander, US Army Tank-automotive and Armaments Command
ATTN: AMSTA-TR-E/Materials
Warren, MI 48397-5000

[End of Clause]

E-10 52.246-4024 SUBSTITUTING COMMERCIAL TEST RESULTS FOR REQUIRED CONTRACT TESTS APR/2000

CONTINUATION SHEET

Reference No. of Document Being Continued

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(TACOM)

(a) GENERAL. At your request, we may delete all or some of the Government or contractor conducted tests required by this contract or order, under the following conditions:

(1) You have (or your supplier has) previously supplied the identical item to us and we've accepted it, or:

(2) You have commercial test reports, performance data, analytical data, or vendor reports demonstrating that the item you will be furnishing us meets the contract requirements.

(b) HOW TO SUBMIT A TEST-DELETION REQUEST.

(1) BEFORE CONTRACT AWARD - Submit your request along with your offer in response to our solicitation. Make sure that your offer includes an alternate price (that reflects how your offered price would change if we approve your request to delete the specified tests). If we approve your request to delete test requirements or substitute commercial testing procedures, we will evaluate your offer at the alternate price submitted with your request. If you don't submit an alternate price with your request, we'll evaluate your offer at the price you indicated in the Schedule. No adjustments will be made to the price after contract award.

(2) AFTER CONTRACT AWARD - Send your request to the buyer identified on the face page of the contract within 45 days after contract award.

(3) ALL REQUESTS MUST -

- identify the test(s) you want deleted;
- state the basis for your request;
- include a list of configuration changes made;
- demonstrate that you meet the conditions in paragraph (a)(1) or (a)(2) of this clause; and
- include an alternate price per paragraph (b)(1) above, if you make your request prior to award; or
- include proposed amount of equitable adjustment, if you make your request after award.

(c) SUPPORTING DATA. If we agree to delete a test or tests, you must keep the data you used to support your request for four years from the day we approved your request. You must provide us with such data if we ask for a copy.

(d) CONTRACT ADJUSTMENT. If we agree to delete a test or tests after contract award, we may negotiate an equitable adjustment in the contract price. Any such negotiation will be conducted using the rules given in the CHANGES--FIXED PRICE clause, FAR 52.243-1.

[End of Clause]

E-11 52.246-4028 INSPECTION POINT: ORIGIN FEB/1994
(TACOM)

We will inspect the supplies as described elsewhere in this solicitation/contract before acceptance. Fill-in the location, contractor's or subcontractor's plant, where origin inspection will occur.

CONTRACTOR'S PLANT: _____
 (Name)

 (Address) (City) (County) (State) (Zip)

SUBCONTRACTOR'S PLANT: _____
 (Name)

 (Address) (City) (County) (State) (Zip)

[End of Clause]

E-12 52.246-4029 ACCEPTANCE POINT: ORIGIN OCT/2002
(TACOM)

Name of Offeror or Contractor: MIL-MAR CENTURY CORP

We will accept these supplies at the address or addresses designated in the Section E clause entitled INSPECTION POINT.

[End of Clause]

E.1 Inspection Procedures

E.1.1 In-Process Inspection: During fabrication of the first production Tow Bar, in-process inspections shall be performed by the contractor and witnessed by government representatives, to evaluate conformance to the technical requirements of this contract. Evaluation of process controls and workmanship shall be made at this time. During the inspection, the contractor shall have available for review and evaluation all appropriate records and documentation, including, but not limited to: quality manual (or appropriate document), work instructions, process procedures (such as welding and painting), inspection records, material certifications traceable to the materials used, and welder qualification records.

E.1.2 Contractor First Piece Inspection: One of the first five (5) production Tow Bars produced shall be selected at random by the government and subjected to a First Piece Inspection by the contractor. This inspection shall be conducted to verify conformance to all technical requirements of the contract, including dimensional and physical characteristics, welding conformance, finish application, and vehicle physical interface.

E.1.2.1 At least 20 calendar days before the commencement of the First Piece Inspection, the Contractor shall notify the Contracting Officer, in writing, of the time and location of the testing so that the Government may witness the tests.

E.1.2.2 Following First Piece Inspection and Government testing, the Contractor shall be responsible for any changes, modifications and corrections of defects deemed necessary to bring the item into conformance with requirements.

E.2 Welding Requirements._

E.2.1 Welding procedures shall comply with MIL-STD-1261, Class 3.

E.3 Change of Suppliers. If a source of supply change is made for any Tow Bar component after First Article approval, the Government reserves the right to conduct

E.2.2 Welder Qualification. The contractor may use his current method in effect at the time of contract award for welder qualification. The contractor shall be responsible for determining that automatic welding equipment and operators are capable of consistently producing quality welds in accordance with the prepared welding procedures. If requested, the contractor shall make available all welder qualification documentation.

E.3 Inspection Equipment. The contractor shall be responsible to supply and maintain all inspection and test equipment necessary to assure the vehicle system and components conform to contract requirements. All inspection equipment shall be available for use at the start of production. The contractor shall make available to the government applicable and necessary inspection equipment for use during vehicle system inspection. The government will return all inspection equipment upon completion of inspection. The contractor shall apply best commercial practice to maintain the inspection and test equipment used in the inspection of the vehicle systems.

E.4 Inspection Records. The contractor shall maintain and make available to the government upon request, all records of examinations and tests performed on material used to produce each vehicle system. This documentation shall describe deficiencies found during inspection and all corrective action undertaken to correct these deficiencies. These records shall be maintained for a period of four years following completion of the contract.

E.5 Certifications. All certifications provided by the contractor shall include appropriate supporting documentation such as, but not limited to: test data, material analysis, drawings, purchase orders, specifications, etc. In the event that particular certifications are not acceptable to the government, the contractor shall conduct additional examinations and tests and/or provide additional documentation as required to verify conformance at no additional cost to the government. Subcontracting does not relieve the contractor from providing all the necessary supporting documentation for all certifications provided to the Government. Also, the contractor shall provide a new or updated certification whenever a change is made in a supplier when the change is relevant to the certification.

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*** END OF NARRATIVE E 003 ***

CONTINUATION SHEET

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ <u>ITEM</u> <u>MIPR</u>	ACRN	OBLG STAT/ <u>JOB ORD NO</u>		<u>PRIOR AMOUNT</u>	<u>INCREASE/DECREASE</u> <u>AMOUNT</u>		<u>CUMULATIVE</u> <u>AMOUNT</u>
0302AJ	X13GX374X1 31107180008 A13P30082RX1	AB	2 3GXP19	\$	0.00 \$	191,592.00	\$	191,592.00
0302AK	X12GX280X1 31107180008 A12P30082RX1	AC	2 2GXP10	\$	0.00 \$	177,400.00	\$	177,400.00
0302AL	W14GXR01X1 1120500000 MIPR4CBDEK4002	AE	2	\$	0.00 \$	134,824.00	\$	134,824.00
					NET CHANGE	\$	503,816.00	

<u>SERVICE</u> <u>NAME</u>	<u>NET CHANGE</u> <u>BY ACRN</u>	<u>ACCOUNTING CLASSIFICATION</u>			<u>ACCOUNTING</u> <u>STATION</u>	<u>INCREASE/DECREASE</u> <u>AMOUNT</u>
Army	AB	21	32033000035R5R07P31107131E9	S20113	W56HZV	\$ 191,592.00
Army	AC	21	22033000025R5R07P31107131E9	S20113	W56HZV	\$ 177,400.00
Army	AE	21	4202000004821300112050031NA	S95523	W56HZV	\$ 134,824.00
						NET CHANGE \$ 503,816.00

	<u>PRIOR AMOUNT</u> <u>OF AWARD</u>	<u>INCREASE/DECREASE</u> <u>AMOUNT</u>	<u>CUMULATIVE</u> <u>OBLIG AMT</u>
NET CHANGE FOR AWARD:	\$ 289,851.40	\$ 503,816.00	\$ 793,667.40