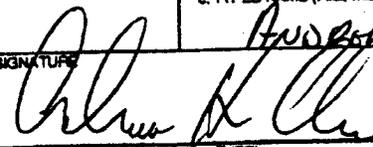


<b>NOTICE REVISION (NOR)</b> THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED		TYPE .YYMMDD) <b>20000710</b>	Form Approved OMB No. 0704-0188
<small>The public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCUREMENT ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</small>			2. PROCURING ACTIVITY NO. <b>LJS3022</b>
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) <b>Bennie J. Boswell</b>		b. ADDRESS (Street, City, State, Zip Code) <b>TACOM-ARDEC, AMSTA-AR-CCL-FM          Rock Island, Il. 61299-7300</b>	5. CAGE CODE <b>19200</b>  7. CAGE CODE <b>19200</b>
8. TITLE OF DOCUMENT <b>Lock Scale Screw QAP</b>		10. REVISION LETTER a. CURRENT <b>C</b>	b. NEW <b>D</b>
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES <b>40 mm Grenade Machine Gun, MK19, Mod 3</b>		NOR SHT <b>1 of 7</b>	ECP SHT <b>24 OF 58</b>
11. ECP NO. <b>LJS3022</b>			

13. DESCRIPTION OF REVISION

SEE NOR CONTINUATION SHEET 2 THRU 7 OF 7 DATED 00-07-10 FOR PROPOSED NEW REVISED QAP.

14. THIS SECTION FOR GOVERNMENT USE ONLY

a. (X one) <input checked="" type="checkbox"/>	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT <b>OLM SMALL ARMS</b>	c. TYPED NAME (First, Middle Initial, Last) <b>ANDREW H. CLINE</b>	
d. TITLE <b>PROD DIRECTOR</b>	e. SIGNATURE 	f. DATE SIGNED (YY MM DD) <b>15 SEP 00</b>
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (SIGNATURE)	c. DATE SIGNED (YY MM DD)

# QUALITY ASSURANCE PROVISIONS (QAP)

**1. COMMAND AGENCY:**

U.S. ARMY ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, N.J. 07806-5000

**2. THESE QAPS FORM A PART OF DRAWING/SPECIFICATION 7791018 SPECIFIED IN THE CONTRACT.  
INSPECTION SHALL BE CONDUCTED AS SPECIFIED HEREIN AND IN ACCORDANCE WITH REFERENCED DOCUMENT 1.**

**3. PART I. LIST OF APPLICABLE DOCUMENTS**

**DRAWINGS**

7791018 Screw, Lock Scale

**STANDARDS**

MIL-STD-1916 DOD Preferred Methods for Acceptance of Product

**SPECIFICATIONS**

MIL-DTL-16232 Phosphate Coatings, Heavy, Manganese or Zinc Base (for Ferrous Metals)  
 MIL-W-63150 Weapons and Support Materiel, Standard Quality Assurance Provisions for  
 MIL-PRF-3150 Lubricating Oil, Preservative, Medium

**NON-GOVERNMENT PUBLICATIONS**

ASTM B117 Standard Method of Salt Spray (Fog) Apparatus Operating

(Application for copies of ASTM documents should be addressed to American Society for Testing and Materials, 100 Bar Harbor Drive, West Conshohocken PA 19428-2959)

· NOR CONTINUATION SHEET 2 OF 7  
 ECP LOS 3022 - NOR 014  
 PROPOSED NEW REVISED QAP  
*Kevin J. Powell* 00-07-10

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**REVISIONS**

4. RELEASE NUMBER																				
5. DATE																				
4. RELEASE NUMBER																				
5. DATE																				
REVISION STATUS OF SHEETS	6. REVISION	D	D	D	D	D	D													
	7. SHEET	1	2	3	4	5	6													
	6. REVISION																			
	7. SHEET																			
8. QAP FOR: Screw, Lock, Scale											FSCM:				CAGE CODE 19200					
9. SUBMITTED BY:											10. QAP NO.: 7 91018									
11. DATE: 000706			12. APPROVED:				13. RELEASE NO. ---			14. PAGE NO. 1			15. NO. OF PAGES 6							

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3. **PART II. CONFORMANCE PROVISIONS**

1.0 General provisions.

1.1 Classification of characteristics. There are three classes of characteristics covered in this QAP. These are critical, major, and minor characteristics, as defined in MIL-STD-1916.

1.2 Workmanship. The workmanship provisions of MIL-W-63150 are applicable to this QAP.

1.3 Certification provisions.

1.3.1 Certified Test Reports (CTR). If CTR is specified in Part IV, the contractor shall make available to the Government a CTR for each lot of parts, assemblies, subsystems and systems by lot number prior to acceptance. This test report is in addition to, and not in lieu of, any rights of the Government under this contract or law. A CTR may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of the contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the report shall contain the following:

- a. Name of company and date.
- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. All inspections and tests required by contract (i.e., material, processes, performance, functional, etc.) shall be recorded in test reports. These reports shall identify each lot submitted for acceptance by lot number, the specification or drawing, revision and date, grade or type as applicable, number of specimens tested, specified characteristics and requirements, and actual results obtained.
- e. Reports of the raw material producer's chemical, mechanical, and physical analysis.
- f. A statement, as follows, certifying that material meets all requirements of the contract:

"The undersigned, individually, and as the authorized representative of the contractor, warrants and represents that: All the information supplied above is true and accurate; the material covered by this certificate conforms to all contract requirements (including but not limited to the drawings and specifications); the inspection and test results, and the analysis appearing herein are true and accurate; and this certificate is made for the purpose of inducing payment and with knowledge that the information and certification may be used as a basis for payment."

g. Signature and title of certifying official.

1.3.2 Certificate of conformance (COC). When COC is specified in Part IV, A certificate of conformance is required for Military Standard and commercial items, supported by inspection and test data, material analysis, or certification from the raw material producer or processor, and shall be made available to the Government for specifications covering raw material, processed material, and processes. The contractor shall make the COC available to the Government prior to or with the request to perform acceptance inspection approval by the Government. This is in addition to, and not in lieu of, any rights of the Government under this contract or law. A COC may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the COC shall contain the following:

a. Name of company and date.

NOR CONTINUATION SHEET 3 OF 7  
 ECP LOS 3022 - NOR 014  
 PROPOSED NEW REVISED QAP  
*[Signature]*  
 00-07-10

					FSCM:	CAGE CODE 19200
16. REVISION						10. QAP NO.: 7791018
SYMBOL						14. PAGE NO. 2
AND DATE						

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3.

- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. A statement, as follows, certifying that material meets all requirements of the contract:

**2. First article.**

**2.1 Submission.** Unless otherwise specified in the contract, a first article sample consisting of five QAP items shall be submitted for inspection and approval in accordance with the terms of this contract. The sample items will be subjected to any or all of the examinations and tests specified in this QAP and may be inspected for compliance with any or all of the requirements of the applicable drawing(s) and specification(s). The certification requirements of Part IV apply.

**2.2 Rejection.** If any sample item fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure to comply with any of the requirements.

**3. Verification.** Verification inspection shall consist of inspection of all conformance characteristics contained in Part III "Inspection Requirements" and Part IV "Certification Requirements" of this QAP. Failure to comply with the conformance criteria shall be cause for rejection of the lot or quantity represented by the sample. All other quality characteristics not specifically listed herein are subject to control under the contractor's quality program or inspection system.

**3.1 Lot formation.** Inspection lots shall comply with the lot requirements of MIL-STD-1916, paragraph 4.2.

**3.2 Attributes sampling inspection.** The provisions/procedures of MIL-STD-1916 are applicable to this QAP. Unless otherwise specified, attributes sampling for the conformance characteristics listed in Part III herein shall be in accordance with MIL-STD-1916, Table II, using the verification level cited in the conformance criteria columns of Part III. The procedure in MIL-STD-1916 for normal inspection shall be used at the start of production for current or previous suppliers of the item. For all new suppliers of the item, tightened inspection shall be used at the start of production and be continued until the criteria for normal inspection are met.

**3.3 Alternative verification provisions.** Unless otherwise specified, alternative verification provisions such as statistical process control (SPC) (preferred), variables sampling plans, or continuous sampling plans may be used by the contractor in lieu of the inspection provisions contained herein when such alternative(s) provide an equivalent or better level of quality, and provided they have been described in a written proposal which has been approved by the Government.

**3.4 Inspection Equipment.** Unless otherwise specified herein or in the contract, all inspection equipment required to perform the examinations and tests in this QAP shall be designed, documented and maintained by the contractor, including any fixtures necessary to accommodate the test procedures. Inspection equipment shall incorporate the appropriate measurement capability, precision and accuracy to assure rejection of all non-conforming product.

**3.5 Components and Assemblies.** All components shall conform to the drawings for those components prior to installation into an assembly.

NOR CONTINUATION SHEET 4 OF 7  
 ECP LOS 3022 NOR 014  
 PROPOSED NEW REVISED QAP  
*[Signature]* 00-07-10

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16. REVISION							10. QAP NO.: 7791018
SYMBOL							14. PAGE NO. 3
AND DATE							

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

## 3. PART III. INSPECTION REQUIREMENTS.

### 1. Classification of Conformance Characteristics

Screw, Lock Scale      7791018

<u>CLASS</u>	<u>CHARACTERISTIC</u>	<u>ZONE</u>	<u>CONFORMANCE CRITERIA</u>	<u>INSPECTION METHOD</u>
CRITICAL	None			
MAJOR			Level III	Visual
101	Missing or Defective Protective Finish			
102	Protective Coating (Phosphate) Salt Spray Test (See Table II)	D-2	Level III	SMTE -1
103	Protective Coating (Phosphate) Weight Test (See Table II)	C-2	Level III	SMTE-2
104	Supplemental Oil Treatment Salt Spray Test (See Table II)	C-1	Level III	SMTE-3
105	Protective Coating (Phosphate) Supplemental Oil Treatment Salt Spray Test (See Table II)	A-2	Level III	SMTE-4
106	.138-40NF-2A			SMTE
MINOR			Level II	SMTE
201	.093 Hole Diameter		Level II	Visual
202	Workmanship (See MIL-W-63150)			

NOR CONTINUATION SHEET 5 OF 7  
 ECP LOS3622      NOR 014  
 PROPOSED NEW REVISED QAP  
*William J. Howell*      00-07-10

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16. REVISION							10. QAP NO.: 7791018
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AND DATE							

# QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET

3.

2. Special sampling inspection.

2.1 Phosphate Coating Salt Spray (Corrosion). Testing shall be accomplished on a per lot basis or per shift, i.e., at least once every eight hours. Four (4) specimens, distributed randomly and processed concurrently with the items, or four (4) items randomly selected shall be tested in accordance with STM-1. The specimens shall conform to MIL-DTL-16132. If any item/specimen in the sample fails, the quantity represented shall be rejected.

2.2 Phosphate Coating Weight. Testing shall be accomplished on a per lot basis or shift, i.e., at least once every eight hours. Two (2) specimens, distributed randomly and processed concurrently with the items, or two (2) items randomly selected shall be tested in accordance with STM-2. The specimens shall conform to MIL-DTL-16232. If any item/specimen in the sample fails, the quantity represented shall be rejected.

2.3 Supplemental Oil Treatment Salt Spray Test. Testing shall be accomplished at the time of first article and at least semi-monthly during production. Three (3) test panels for first article and three test panels per processing tank or dispenser used during production shall be prepared and tested in accordance with STM-4. The specimens shall conform to MIL-PRF-3150. If any test panel in the sample fails, the quantity represented shall be rejected.

## PART IV. CERTIFICATION REQUIREMENTS

The certification provisions of para. 1.3 for Certified Test Reports (CTRs) and Certificates of Conformance (COCs) shall apply. CTRs and COCs are required for the following:

NUMBER	CHARACTERISTIC	CERTIFICATION METHOD	TEST DATA TO COMPLY WITH
401	Phosphate Coating	CTR	Dwg. 7791018
402	Material	COC	Dwg. 7791018

NOR CONTINUATION SHEET 6 OF 7  
 ECP LOS 3022 NOR 014  
 PROPOSED NEW REVISED QAP  
*Kenneth J. Howell* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.:
SYMBOL							7791018
AND DATE							14. PAGE NO. 5

# QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET

3.

## PART V. TEST METHODS AND PROCEDURES

STM-1. Protective Coating (Phosphate) Salt Spray Test. This test shall be conducted in accordance with MIL-DTL-16232 and ASTM B117 prior to application of supplementary treatments.

STM-2. Protective Coating (Phosphate) Weight Test. This test shall be conducted as specified in MIL-DTL-16232.

STM-3. Supplemental Oil Treatment Salt Spray Test. This test shall be conducted in accordance with MIL-PRF-3150 and ASTM B117.

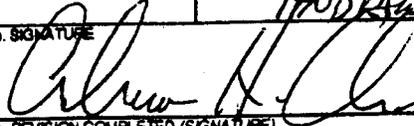
STM-4. Protective Coating (Phosphate) Supplemental Oil Treatment Salt Spray Test. This test shall be conducted in accordance with MIL-DTL-16232 and ASTM B117 after application of Supplemental Oil Treatment.

## PART VI. NOTES

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 ECP LOS 3022 NOR 014  
 PROPOSED NEW REVISED QAP  
*[Signature]* 00-07-10

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16. REVISION							19200
SYMBOL							10. QAP NO.:
AND DATE							7791018
							14. PAGE NO.
							6

ARDEC V1.0

<b>NOTICE OF REVISION (NOR)</b> THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED		<b>1. DATE</b> (YYYYMMDD) 20000710	Form Approved OIB No. 0704-0188
<small>The public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</small>			
<b>4. ORIGINATOR</b> a. TYPED NAME (First, Middle Initial, Last) <b>Bennie J. Boswell</b>		b. ADDRESS (Street, City, State, Zip Code) <b>TACOM-ARDEC, AMSTA-AR-CCL-FM          Rock Island, IL 61299-7300</b>	<b>5. CAGE CODE</b> 19200 <b>7. CAGE CODE</b> 19200
<b>9. TITLE OF DOCUMENT</b> <b>Elevating Screw QAP</b>		<b>10. REVISION LETTER</b> a. CURRENT <b>C</b>	<b>6. NOR NO.</b> 015 <b>8. DOCUMENT NO.</b> SC7791025 <b>11. ECP NO.</b> 1.0S3022
<b>12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES</b> <b>40 mm Grenade Machine Gun, MK19, Mod 3</b>		<b>NOR SHT</b> 1 of 7	<b>ECP SHT</b> 21 OF 58
<b>13. DESCRIPTION OF REVISION</b>  <p style="text-align: center;"><b>SEE NOR CONTINUATION SHEET 2 THRU 7 OF 7 DATED 00-07-10 FOR PROPOSED NEW REVISED QAP.</b></p>			
<b>14. THIS SECTION FOR GOVERNMENT USE ONLY</b>			
a. (X one)	<input checked="" type="checkbox"/>	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.	
<b>b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT</b> <i>OPM Small Arms</i>		<b>c. TYPED NAME (First, Middle Initial, Last)</b> <i>Andrew H. Cline</i>	
<b>d. TITLE</b> <i>Prod Director</i>		<b>e. SIGNATURE</b> 	<b>f. DATE SIGNED (YYYYMMDD)</b> <i>18 Sep 00</i>
<b>15. ACTIVITY ACCOMPLISHING REVISION</b>		<b>g. REVISION COMPLETED (SIGNATURE)</b>	<b>h. DATE SIGNED (YYYYMMDD)</b>

# QUALITY ASSURANCE PROVISIONS (QAP)

**1. COMMAND AGENCY:**

U.S. ARMY ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, N.J. 07804-5000

**2. THESE QAPS FORM A PART OF DRAWING/SPECIFICATION 7791025 SPECIFIED IN THE CONTRACT. INSPECTION SHALL BE CONDUCTED AS SPECIFIED HEREIN AND IN ACCORDANCE WITH REFERENCED DOCUMENTS.**

**3. PART I LIST OF APPLICABLE DOCUMENTS**

**DRAWINGS**

7791025 Screw, Elevating

**STANDARDS**

MIL-STD-1916 DOD Preferred Methods for Acceptance of Product

**SPECIFICATIONS**

MIL-DTL-16232 Phosphate Coatings, Heavy, Manganese or Zinc Base (For Ferrous Metals)  
 MIL-W-63150 Weapons and Support Materiel, Standard Quality Assurance Provisions for  
 MIL-PRF-3150 Lubricating Oil, Preservative, Medium  
 MIL-S-13572 Springs, Helical, Compression and Extension

**NON-GOVERNMENT PUBLICATIONS**

ASTM B117 Standard Method of Salt Spray (Fog) Apparatus Operating

(Application for copies of ASTM documents should be addressed to American Society for Testing and Materials, 100 Bar Harbor Drive, West Conshohocken PA 19428-2959)

NOR CONTINUATION SHEET 2 OF 7  
 ECP LOS3022 - NOR 015  
 PROPOSED NEW REVISED QAP  
*Thermon J. Maxwell* 00-01-10

**DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited**

**REVISIONS**

4. RELEASE NUMBER																			
5. DATE																			
4. RELEASE NUMBER																			
5. DATE																			
REVISION STATUS OF SHEETS	6. REVISION	D	D	D	D	D	D												
	7. SHEET	1	2	3	4	5	6												
	6. REVISION																		
	7. SHEET																		
8. QAP FOR:	Screw, Elevating										FSCM:			CAGE CODE 19200					
9. SUBMITTED BY:											10. QAP NO.: 7791025								
11. DATE: 661103	12. APPROVED:					13. RELEASE NO. ---			14. PAGE NO. 1			15. NO. OF PAGES 6							

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3. PART II. CONFORMANCE PROVISIONS

1.0 General provisions.

1.1 Classification of characteristics. There are three classes of characteristics covered in this QAP. These are: critical, major, and minor characteristics, as defined in MIL-STD-1916.

1.2 Workmanship. The workmanship provisions of MIL-W-63150 are applicable to this QAP.

1.3 Certification provisions.

1.3.1 Certified Test Reports (CTR). If CTR is specified in Part IV, the contractor shall make available to the Government a CTR for each lot of parts, assemblies, subsystems and systems by lot number prior to acceptance. This test report is in addition to, and not in lieu of, any rights of the Government under this contract or law. A CTR may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of the contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the report shall contain the following:

- a. Name of company and date.
- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. All inspections and tests required by contract (i.e., material, processes, performance, functional, etc.) shall be recorded in test reports. These reports shall identify each lot submitted for acceptance by lot number, the specification or drawing, revision and date, grade or type as applicable, number of specimens tested, specified characteristics and requirements, and actual results obtained.
- e. Reports of the raw material producer's chemical, mechanical, and physical analysis.
- f. A statement, as follows, certifying that material meets all requirements of the contract:

"The undersigned, individually, and as the authorized representative of the contractor, warrants and represents that: All the information supplied above is true and accurate; the material covered by this certificate conforms to all contract requirements (including but not limited to the drawings and specifications); the inspection and test results, and the analysis appearing herein are true and accurate; and this certificate is made for the purpose of inducing payment and with knowledge that the information and certification may be used as a basis for payment."

- g. Signature and title of certifying official.

1.3.2 Certificate of conformance (COC). When COC is specified in Part IV, A certificate of conformance is required for Military Standard and commercial items, supported by inspection and test data, material analysis, or certification from the raw material producer or processor, and shall be made available to the Government for specifications covering raw material, processed material, and processes. The contractor shall make the COC available to the Government prior to or with the request to perform acceptance inspection approval by the Government. This is in addition to, and not in lieu of, any rights of the Government under this contract or law. A COC may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the COC shall contain the following:

- a. Name of company and date.

NCR CONTINUATION SHEET 3 OF 7  
 ECP LOS 3022 - NDR 015  
 PROPOSED NEW REVISED QAP  
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16. REVISION						10. QAP NO.: 7791025
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AND DATE						

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3.

- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. A statement, as follows, certifying that material meets all requirements of the contract:

**2. First article.**

**2.1 Submission.** Unless otherwise specified in the contract, a first article sample consisting of five QAP items shall be submitted for inspection and approval in accordance with the terms of this contract. The sample items will be subjected to any or all of the examinations and tests specified in this QAP and may be inspected for compliance with any or all of the requirements of the applicable drawing(s) and specification(s). The certification requirements of Part IV apply.

**2.2 Rejection.** If any sample item fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure to comply with any of the requirements.

**3. Verification.** Verification inspection shall consist of inspection of all conformance characteristics contained in Part III "Inspection Requirements" and Part IV "Certification Requirements" of this QAP. Failure to comply with the conformance criteria shall be cause for rejection of the lot or quantity represented by the sample. All other quality characteristics not specifically listed herein are subject to control under the contractor's quality program or inspection system.

**3.1 Lot formation.** Inspection lots shall comply with the lot requirements of MIL-STD-1916, paragraph 4.2.

**3.2 Attributes sampling inspection.** The provisions/procedures of MIL-STD-1916 are applicable to this QAP. Unless otherwise specified, attributes sampling for the conformance characteristics listed in Part III herein shall be LAW MIL-STD-1916, Table II, using the verification level cited in the conformance criteria columns of Part III. The procedure in MIL-STD-1916 for normal inspection shall be used at the start of production for current or previous suppliers of the item. For all new suppliers of the item, tightened inspection shall be used at the start of production and be continued until the criteria for normal inspection are met.

**3.3 Alternative verification provisions.** Unless otherwise specified, alternative verification provisions such as statistical process control (SPC) (preferred), variables sampling plans, or continuous sampling plans may be used by the contractor in lieu of the inspection provisions contained herein when such alternative(s) provide an equivalent or better level of quality, and provided they have been described in a written proposal which has been approved by the Government.

**3.4 Inspection Equipment.** Unless otherwise specified herein or in the contract, all inspection equipment required to perform the examinations and tests in this QAP shall be designed, documented and maintained by the contractor, including any fixtures necessary to accommodate the test procedures. Inspection equipment shall incorporate the appropriate measurement capability, precision and accuracy to assure rejection of all non-conforming product.

**3.5 Components and Assemblies.** All components shall conform to the drawings for those components prior to installation into an assembly.

N&R CONTINUATION SHEET 4 OF 7  
 ECP LOS3022 - NDR DIS  
 PROPOSED NEW REVISED QAP  
*[Signature]* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 7791025
SYMBOL							14. PAGE NO. 3
AND DATE							



# QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET

3.

**2. Special sampling inspection.**

**2.1 Phosphate Coating Salt Spray (Corrosion).** Testing shall be accomplished on a per lot basis or per shift, i.e., at least once every eight hours. Four (4) specimens, distributed randomly and processed concurrently with the items, or four (4) items randomly selected shall be tested in accordance with STM-1. The specimens shall conform to MIL-DTL-16232. If any item/specimen in the sample fails, the quantity represented shall be rejected.

**2.2 Phosphate Coating Weight.** Testing shall be accomplished on a per lot basis or shift, i.e., at least once every eight hours. Two (2) specimens, distributed randomly and processed concurrently with the items, or two (2) items randomly selected shall be tested in accordance with STM-2. The specimens shall conform to MIL-DTL-16232. If any item/specimen in the sample fails, the quantity represented shall be rejected.

**2.3 Phosphate Coating Supplemental Oil Treatment Salt Spray Test.** Testing shall be accomplished on a per lot basis or per shift, i.e. at least once every eight hours. Four (4) specimens, distributed randomly and processed concurrently with the items, or four (4) items randomly selected shall be tested in accordance with STM-3. The specimens shall conform to MIL-DTL-16232. If any item/specimen in the sample fails, the quantity represented shall be rejected.

## PART IV. CERTIFICATION REQUIREMENTS

The certification provisions of para. 1.3 for Certified Test Reports (CTRs) and Certificates of Conformance (COCs) shall apply. CTRs and COCs are required for the following:

NUMBER	CHARACTERISTIC	CERTIFICATION METHOD	TEST DATA TO COMPLY WITH
401	Phosphate Coating	CTR	1wg. 7790125
402	Material	COC	1wg. 7791025

NOR CONTINUATION SHEET 6 OF 7  
 ECP LOS 3022 - NOR 015  
 PROPOSED NEW REVISED QAP  
*Werner J. Brown* 0007-1D

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 7791025
SYMBOL							14. PAGE NO. 5
AND DATE							

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3.

## PART V. TEST METHODS AND PROCEDURES

- STM-1. Protective Coating (Phosphate) Salt Spray Test.** This test shall be conducted in accordance with MIL-DTL-16232 and ASTM B117 prior to application of supplementary treatments.
- STM-2. Protective Coating (Phosphate) Weight Test.** This test shall be conducted as specified in MIL-DTL-16232.
- STM-3. Protective Coating (Phosphate) Supplemental Oil Treatment Salt Spray Test.** This test shall be conducted in accordance with MIL-DTL-16232 and ASTM B117 after application of Supplemental Oil Treatment.
- STM-4. Supplemental Oil Treatment Salt Spray Test.** This test shall be conducted in accordance with MIL-PRF-3150 and ASTM B117.

## PART VI. NOTES

NOR CONTINUATION SHEET 7 OF 7  
 ECP LOS3022 - NOR 015  
 PROPOSED NEW REVISED QAP  
*[Signature]* 00-07-10

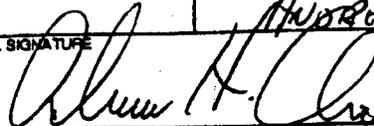
							FSCM:	CAGE CODE
								19200
16. REVISION								10. QAP NO.:
SYMBOL								7791025
AND DATE								14. PAGE NO.
								6

<b>NOTICE OF REVISION (NOR)</b> THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED		DATE (YYYYMMDD) 20000710	Form Approved OM 1 No. 0704-0188
<small>The public reporting burden for the collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.          PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCUREMENT ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</small>			2. PROCUREMENT ACTIVITY NO. LIS3022
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) <b>Bennie J. Boswell</b>			3. EDAAC
b. ADDRESS (Street, City, State, Zip Code) <b>TACOM-ARDEC, AMSTA-AR-CCL-FM          Rock Island, Il. 61299-7300</b>		5. CAGE CODE 19200	6. OR NO. 018
8. TITLE OF DOCUMENT <b>Helical Spring QAP</b>		7. CAGE CODE 19200	8. DOCUMENT NO. SQ7791028
9. TITLE OF DOCUMENT <b>Helical Spring QAP</b>		10. REVISION LETTER a. CURRENT <b>D</b>	11. ECP NO. LIS3022
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES <b>40 mm Grenade Machine Gun, MK19, Mod 3</b>		b. NEW <b>E</b>	ECP SHY <b>33 OF 58</b>

13. DESCRIPTION OF REVISION

SEE NOR CONTINUATION SHEET 2 THRU 7 OF 7 DATED 00-07-10 FOR PROPOSED NEW REVISED QAP.

14. THIS SECTION FOR GOVERNMENT USE ONLY

a. (X one) <input checked="" type="checkbox"/> (1) Existing document supplemented by this NOR may be used in manufacture. <input type="checkbox"/> (2) Revised document must be received before manufacturer may incorporate this change. <input type="checkbox"/> (3) Custodian of master document shall make above revision and furnish revised document.	b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT <b>OPM SMALL ARMS</b>		c. TYPED NAME (First, Middle Initial, Last) <b>Andrew H. Clark</b>
d. TITLE <b>PROD DIRECTOR</b>	e. SIGNATURE 	f. DATE SIGNED (YYYYMMDD) <b>18 Sep 00</b>	
15. a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (SIGNATURE)	g. DATE SIGNED (YYYYMMDD)	

# QUALITY ASSURANCE PROVISIONS (QAP)

**1. COMMAND AGENCY:**

U.S. ARMY ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, N.J. 078 06-5000

2. THESE QAPS FORM A PART OF DRAWING/SPECIFICATION 7791028 SPECIFIED IN THE CONTRACT.  
INSPECTION SHALL BE CONDUCTED AS SPECIFIED HEREIN AND IN ACCORDANCE WITH REFERENCED DOCUMENTS:

**3. PART I. LIST OF APPLICABLE DOCUMENTS**

DRAWINGS

7791028 Spring, Helical

STANDARDS

MIL-STD-1916 DOD Preferred Methods for Acceptance of Product

SPECIFICATIONS

- MIL-DTL-16232 Phosphate Coatings, Heavy, Manganese or Zinc Base (For Ferrous Metals)
- MIL-W-63150 Weapons and Support Materiel, Standard Quality Assurance Provisions for
- MIL-PRF-3150 Lubricating Oil, Preservative, Medium
- MIL-S-13572 Springs, Helical, Compression and Extension

NON-GOVERNMENT PUBLICATIONS

ASTM B117 Standard Method of Salt Spray (Fog) Apparatus Operating

(Application for copies of ASTM documents should be addressed to American Society for Testing and Materials, 100 Bar Harbor Drive, West Conshohocken PA 19428-2959)

NCR CONTINUATION SHEET 2 OF 7  
ECP LOS 3022 - NOR OIG  
PROPOSED NEW REVISED QAP  
*James J. Russell* 00-07-10

**DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.**

REVISIONS

4. RELEASE NUMBER																					
5. DATE																					
4. RELEASE NUMBER																					
5. DATE																					
REVISION STATUS OF SHEETS	6. REVISION	E	E	E	E	E	E														
	7. SHEET	1	2	3	4	5	6														
	6. REVISION																				
	7. SHEET																				
8. QAP FOR:	Spring, Helical										FSCM:				CAGE CODE 19200						
9. SUBMITTED BY:											10. QAP NO.:				7791028						
11. DATE:	12. APPROVED:				13. RELEASE NO.:				14. PAGE NO.:				15. NO. OF PAGES:								
661103					---				1				6								

# QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET

3. PART II. CONFORMANCE PROVISIONS

1.0 General provisions.

1.1 Classification of characteristics. There are three classes of characteristics covered in this QAP. These are critical, major, and minor characteristics, as defined in MIL-STD-1916.

1.2 Workmanship. The workmanship provisions of MIL-W-63150 are applicable to this QAP.

1.3 Certification provisions.

1.3.1 Certified Test Reports (CTR). If CTR is specified in Part IV, the contractor shall make available to the Government a CTR for each lot of parts, assemblies, subsystems and systems by lot number prior to acceptance. This test report is in addition to, and not in lieu of, any rights of the Government under this contract or law. A CTR may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of the contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the report shall contain the following:

- a. Name of company and date.
- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. All inspections and tests required by contract (i.e., material, processes, performance, functional, etc.) shall be recorded in test reports. These reports shall identify each lot submitted for acceptance by lot number, the specification or drawing, revision and date, grade or type as applicable, number of specimens tested, specified characteristics and requirements, and actual results obtained.
- e. Reports of the raw material producer's chemical, mechanical, and physical analysis.
- f. A statement, as follows, certifying that material meets all requirements of the contract:

"The undersigned, individually, and as the authorized representative of the contractor, warrants and represents that: All the information supplied above is true and accurate; the material covered by this certificate conforms to all contract requirements (including but not limited to the drawings and specifications); the inspection and test results, and the analysis appearing herein are true and accurate; and this certificate is made for the purpose of inducing payment and with knowledge that the information and certification may be used as a basis for payment."

- g. Signature and title of certifying official.

1.3.2 Certificate of conformance (COC). When COC is specified in Part IV, A certificate of conformance is required for Military Standard and commercial items, supported by inspection and test data, material analysis, or certification from the raw material producer or processor, and shall be made available to the Government for specifications covering raw material, processed material, and processes. The contractor shall make the COC available to the Government prior to or with the request to perform acceptance inspection approval by the Government. This is in addition to, and not in lieu of, any rights of the Government under this contract or law. A COC may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the COC shall contain the following:

- a. Name of company and date.

NOR CONTINUATION SHEET 3 OF 7  
 ECP LOS 3022 - NOR OIG  
 PROPOSED NEW REVISED QAP  
*Thom J. Howard* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							18. QAP NO.: 7791028
SYMBOL							14. PAGE NO.: 2
AND DATE							

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3.

- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. A statement, as follows, certifying that material meets all requirements of the contract:

2. First article.

**2.1 Submission.** Unless otherwise specified in the contract, a first article sample consisting of five QAP items shall be submitted for inspection and approval in accordance with the terms of this contract. The sample items will be subjected to any or all of the examinations and tests specified in this QAP and may be inspected for compliance with any or all of the requirements of the applicable drawing(s) and specification(s). The certification requirements of Part IV apply.

**2.2 Rejection.** If any sample item fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure to comply with any of the requirements.

**3. Verification.** Verification inspection shall consist of inspection of all conformance characteristics contained in Part III "Inspection Requirements" and Part IV "Certification Requirements" of this QAP. Failure to comply with the conformance criteria shall be cause for rejection of the lot or quantity represented by the sample. All other quality characteristics not specifically listed herein are subject to control under the contractor's quality program or inspection system.

**3.1 Lot formation.** Inspection lots shall comply with the lot requirements of MIL-STD-1916, paragraph 4.1.

**3.2 Attributes sampling inspection.** The provisions/procedures of MIL-STD-1916 are applicable to this QAP. Unless otherwise specified, attributes sampling for the conformance characteristics listed in Part III herein shall be IAW MIL-STD-1916, Table II, using the verification level cited in the conformance criteria columns of Part III. The procedure in MIL-STD-1916 for normal inspection shall be used at the start of production for current or previous suppliers of the item. For all new suppliers of the item, tightened inspection shall be used at the start of production and be continued until the criteria for normal inspection are met.

**3.3 Alternative verification provisions.** Unless otherwise specified, alternative verification provisions such as statistical process control (SPC) (preferred), variables sampling plans, or continuous sampling plans may be used by the contractor in lieu of the inspection provisions contained herein when such alternative(s) provide an equivalent or better level of quality, and provided they have been described in a written proposal which has been approved by the Government.

**3.4 Inspection Equipment.** Unless otherwise specified herein or in the contract, all inspection equipment required to perform the examinations and tests in this QAP shall be designed, documented and maintained by the contractor, including any fixtures necessary to accommodate the test procedures. Inspection equipment shall incorporate the appropriate measurement capability, precision and accuracy to assure rejection of all non-conforming product.

**3.5 Components and Assemblies.** All components shall conform to the drawings for those components prior to installation into an assembly.

NOR CONTINUATION SHEET 4 DF7  
 ECP LDS3022 - NOR OIL  
 PROPOSED NEW REVISED QAP  
*William J. Howard* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.:
SYMBOL							7791028
AND DATE							14. PAGE NO. 3

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3. PART III. INSPECTION REQUIREMENTS.

1. Classification of Conformance Characteristics

Spring, Helical 7791028

<u>CLASS</u>	<u>CHARACTERISTIC</u>	<u>ZONE</u>	<u>CONFORMANCE CRITERIA</u>	<u>INSPECTION METHOD</u>
CRITICAL	None			
MAJOR				
101	Missing or Defective Protective Finish		Level III	Visual
102	.060 Max. Dia		Level III	SMTE
103	1.7 ± .17 lbs. At .220 Basic		Level III	SMTE
104	Supplemental Oil Treatment Salt Spray Test (Seen Table II)		Level III	SMTE -1
MINOR				
201	Ends Closed and Ground Flat		Level II	Visual

NOR CONTINUATION SHEET 5 OF 7  
 ECP LOS 3022 - NOR 016  
 PROPOSED NEW REVISED QAP  
*Brian J. Howell* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 7791028
SYMBOL							14. PAGE NO. 4
AND DATE							

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3.

2. Special sampling inspection.

**2.3 Supplemental Oil Treatment Salt Spray Test.** Testing shall be accomplished at the time of first article and at least semi-monthly during production. Three (3) test panels for first article and three test panels per processing tank or dispenser used during production shall be prepared and tested in accordance with STM-4. The specimens shall conform to MIL-PRF-3150. If any test panel in the sample fails, the quantity represented shall be rejected.

### PART IV. CERTIFICATION REQUIREMENTS

The certification provisions of para. 1.3 for Certified Test Reports (CTRs) and Certificates of Conformance (COCs) shall apply. CTRs and COCs are required for the following:

<u>NUMBER</u>	<u>CHARACTERISTIC</u>	<u>CERTIFICATION METHOD</u>	<u>TEST DATA TO COMPLY WITH</u>
401	Spring Requirements	CTR	MIL-S-13572
402	Material	COC	1wg. 7791028
403	Stress Relieve	CTR	1wg. 7791028

NOR CONTINUATION SHEET 6 OF 7  
 ECP L65.3022 - NOR OIL  
 PROPOSED NEW REVISED QAP  
*Kevin J. Howell* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 7791028
SYMBOL							14. PAGE NO. 5
AND DATE							

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3.

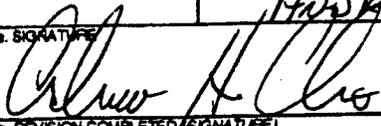
## PART V. TEST METHODS AND PROCEDURES

STM-1. Supplemental Oil Treatment Salt Spray Test. This test shall be conducted in accordance with MIL -PRF-3150 and ASTM B117.

## PART VI. NOTES

NOR CONTINUATION SHEET 7 OF 7  
 ECP LOS3022 -NOR OIG  
 PROPOSED NEW REVISED QAP?  
*T. J. Howell* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 7791028
SYMBOL							14. PAGE NO. 6
AND DATE							

<b>NOTICE OF REVISION (NOR)</b> THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED		DATE (YYYYMMDD) 20000710	Form Approved OMB No. 0704-0188
<small>The public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCUREMENT ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</small>			2. PROCURING ACTIVITY NO. OS3022
			3. DOD AAC
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) Bennie J. Boswell	b. ADDRESS (Street, City, State, Zip Code) TACOM-ARDEC, AMSTA-AR-CCL-FM Rock Island, Il. 61299-7300	5. CAGE CODE 19200	6. NOR NO. 017
		7. CAGE CODE 19200	8. DOCUMENT NO. S011010390
9. TITLE OF DOCUMENT Flat Round Washer QAP		10. REVISION LETTER a. CURRENT -	
		b. NEW A	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES 40 mm Grenade Machine Gun, MK19, Mod 3		NOR SHT. 1 of 7	ECP SHT 45 OF 58
13. DESCRIPTION OF REVISION  <p style="text-align: center;">SEE NOR CONTINUATION SHEET 2 THRU 7 OF 7 DATED 00-07-10 FOR PROPOSED NEW REVISED QAP.</p>			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	<input checked="" type="checkbox"/>	(1) Existing document supplemented by this NOR may be used in manufacture.	
	<input type="checkbox"/>	(2) Revised document must be received before manufacturer may incorporate this change.	
	<input type="checkbox"/>	(3) Custodian of master document shall make above revision and furnish revised document.	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT OPM SMALL ARMS		c. TYPED NAME (First, Middle Initial, Last) Andrew H. Clark	
d. TITLE PROS DIRECTOR	e. SIGNATURE 	f. DATE SIGNED (YYYYMMDD) 18 SEP 00	
15. a. ACTIVITY ACCOMPLISHING REVISION		b. REVISION COMPLETED (SIGNATURE)	

# QUALITY ASSURANCE PROVISIONS (QAP)

1. COMMAND AGENCY:

U.S. ARMY ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, N.J. 07804-5000

2. THESE QAPS FORM A PART OF DRAWING/SPECIFICATION 11010390 SPECIFIED IN THE CONTRACT.  
INSPECTION SHALL BE CONDUCTED AS SPECIFIED HEREIN AND IN ACCORDANCE WITH REFERENCED DOCUMENTS.

3. **PART I. LIST OF APPLICABLE DOCUMENTS**

DRAWINGS

11010390 Washer, Flat, Round

STANDARDS

MIL-STD-1916 DOD Preferred Methods for Acceptance of Product

SPECIFICATIONS

MIL-DTL-16232 Phosphate Coatings, Heavy, Manganese or Zinc Base (for Ferrous Metals)  
MIL-W-63150 Weapons and Support Materiel, Standard Quality Assurance Provisions for  
MIL-PRF-3150 Lubricating Oil, Preservative, Medium

NON-GOVERNMENT PUBLICATIONS

ASTM B117 Standard Method of Salt Spray (Fog) Apparatus Operating

(Application for copies of ASTM documents should be addressed to American Society for Testing and Materials, 100 Bar Harbor Drive, West Conshohocken PA 19428-2959)

NOR CONTINUATION SHEET 2 OF 7  
 ECP LOS3022 - NOR 017  
 PROPOSED NEW REVISED QAP  
*Kenneth J. Baswell* 00-07-10

**DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.**

REVISIONS

4. RELEASE NUMBER																		
5. DATE																		
4. RELEASE NUMBER																		
5. DATE																		
REVISION STATUS OF SHEETS	6. REVISION	A	A	A	A	A	A											
	7. SHEET	1	2	3	4	5	6											
	6. REVISION																	
	7. SHEET																	
8. QAP FOR:	Washer, Flat Round										FSCM:			CAGE CODE 19200				
9. SUBMITTED BY:											10. QAP NO.:			110 0390				
11. DATE: 000706	12. APPROVED:					13. RELEASE NO. ---			14. PAGE NO. 1		5. NO. OF PAGES 6							

# QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET

3. PART II. CONFORMANCE PROVISIONS

1.0 General provisions.

1.1 Classification of characteristics. There are three classes of characteristics covered in this QAP. These are critical, major, and minor characteristics, as defined in MIL-STD-1916.

1.2 Workmanship. The workmanship provisions of MIL-W-63150 are applicable to this QAP.

1.3 Certification provisions.

1.3.1 Certified Test Reports (CTR). If CTR is specified in Part IV, the contractor shall make available to the Government a CTR for each lot of parts, assemblies, subsystems and systems by lot number prior to acceptance. This test report is in addition to, and not in lieu of, any rights of the Government under this contract or law. A CTR may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of the contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the report shall contain the following:

- a. Name of company and date.
- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. All inspections and tests required by contract (i.e., material, processes, performance, functional, etc.) shall be recorded in test reports. These reports shall identify each lot submitted for acceptance by lot number, the specification or drawing, revision and date, grade or type as applicable, number of specimens tested, specified characteristics and requirements, and actual results obtained.
- e. Reports of the raw material producer's chemical, mechanical, and physical analysis.
- f. A statement, as follows, certifying that material meets all requirements of the contract:

"The undersigned, individually, and as the authorized representative of the contractor, warrants and represents that: All the information supplied above is true and accurate; the material covered by this certificate conforms to all contract requirements (including but not limited to the drawings and specifications); the inspection and test results, and the analysis appearing herein are true and accurate; and this certificate is made for the purpose of inducing payment and with knowledge that the information and certification may be used as a basis for payment."

g. Signature and title of certifying official.

1.3.2 Certificate of conformance (COC). When COC is specified in Part IV, A certificate of conformance is required for Military Standard and commercial items, supported by inspection and test data, material analysis, or certification from the raw material producer or processor, and shall be made available to the Government for specifications covering raw material, processed material, and processes. The contractor shall make the COC available to the Government prior to or with the request to perform acceptance inspection approval by the Government. This is in addition to, and not in lieu of, any rights of the Government under this contract or law. A COC may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the COC shall contain the following:

a. Name of company and date.

NDR CONTINUATION SHEET 3 OF 7  
 ECP LOS 3022 - NOR 017  
 PROPOSED NEW REVISED QAP  
*[Signature]* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.:
SYMBOL							11010390
AND DATE							14. PAGE NO. 2

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3.

- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. A statement, as follows, certifying that material meets all requirements of the contract:

**2. First article.**

**2.1 Submission.** Unless otherwise specified in the contract, a first article sample consisting of five QAP items shall be submitted for inspection and approval in accordance with the terms of this contract. The sample items will be subjected to any or all of the examinations and tests specified in this QAP and may be inspected for compliance with any or all of the requirements of the applicable drawing(s) and specification(s). The certification requirements of Part IV apply.

**2.2 Rejection.** If any sample item fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure to comply with any of the requirements.

**3. Verification.** Verification inspection shall consist of inspection of all conformance characteristics contained in Part III "Inspection Requirements" and Part IV "Certification Requirements" of this QAP. Failure to comply with the conformance criteria shall be cause for rejection of the lot or quantity represented by the sample. All other quality characteristics not specifically listed herein are subject to control under the contractor's quality program or inspection system

**3.1 Lot formation.** Inspection lots shall comply with the lot requirements of MIL-STD-1916, paragraph 4.2.

**3.2 Attributes sampling inspection.** The provisions/procedures of MIL-STD-1916 are applicable to this QAP. Unless otherwise specified, attributes sampling for the conformance characteristics listed in Part III herein shall be IAW MIL-STD-1916, Table II, using the verification level cited in the conformance criteria columns of Part III. The procedure in MIL-STD-1916 for normal inspection shall be used at the start of production for current or previous suppliers of the item. For all new suppliers of the item, tightened inspection shall be used at the start of production and be continued until the criteria for normal inspection are met.

**3.3 Alternative verification provisions.** Unless otherwise specified, alternative verification provisions such as statistical process control (SPC) (preferred), variables sampling plans, or continuous sampling plans may be used by the contractor in lieu of the inspection provisions contained herein when such alternative(s) provide an equivalent or better level of quality, and provided they have been described in a written proposal which has been approved by the Government.

**3.4 Inspection Equipment.** Unless otherwise specified herein or in the contract, all inspection equipment required to perform the examinations and tests in this QAP shall be designed, documented and maintained by the contractor, including any fixtures necessary to accommodate the test procedures. Inspection equipment shall incorporate the appropriate measurement capability, precision and accuracy to assure rejection of all non-conforming product.

**3.5 Components and Assemblies.** All components shall conform to the drawings for those components prior to installation into an assembly.

NGR CONTINUATION SHEET 4 OF 7  
 ELP L053622 - NGR 017  
 PROPOSED NEW REVISED QAP  
*Wynn [Signature]* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.:
SYMBOL							11010390
AND DATE							14. PAGE NO. 3

# QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET

## 3. PART III INSPECTION REQUIREMENTS.

### 1. Classification of Conformance Characteristics

Washer, Flat, Round      11010390

<u>CLASS</u>	<u>CHARACTERISTIC</u>	<u>ZONE</u>	<u>CONFORMANCE CRITERIA</u>	<u>INSPECTION METHOD</u>
CRITICAL	None Defined			
MAJOR			Level III	Visual
101	Missing or Defective Protective Finish			
102	Protective Coating (Phosphate) Salt Spray Test (See Table II)	D-2	Level III	SMTE - 1
103	Protective Coating (Phosphate) Weight Test (See Table II)	C-2	Level III	SMTE- 2
104	Protective Coating (Phosphate) Supplemental Oil Treatment Salt Spray Test (See Table II)	C-1	Level III	SMTE - 3
105	Supplemental Oil Treatment Salt Spray Test (See Table II)		Level III	SMTE- 4
MINOR	None Defined			

NOR CONTINUATION SHEET 5 OF 7  
 ECP LOS3022 - NOR 017  
 PROPOSED NEW REVISED QAP  
*Thomas J. [Signature]* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 11010390
SYMBOL							14. PAGE NO. 4
AND DATE							

# QUALITY ASSURANCE PROVISIONS (QAP) -CONTINUATION SHEET

3.

**2. Special sampling inspection.**

**2.1 Phosphate Coating Salt Spray (Corrosion).** Testing shall be accomplished on a per lot basis or per shift, i.e., at least once every eight hours. Four (4) specimens, distributed randomly and processed concurrently with the items, or four (4) items randomly selected shall be tested in accordance with STM-1. The specimens shall conform to MIL-DTL-16232. If any item/specimen in the sample fails, the quantity represented shall be rejected.

**2.2 Phosphate Coating Weight.** Testing shall be accomplished on a per lot basis or shift, i.e., at least once every eight hours. Two (2) specimens, distributed randomly and processed concurrently with the items, or two (2) items randomly selected shall be tested in accordance with STM-2. The specimens shall conform to MIL-DTL-16232. If any item/specimen in the sample fails, the quantity represented shall be rejected.

**2.3 Phosphate Coating Supplemental Oil Treatment Salt Spray Test.** Testing shall be accomplished on a per lot basis or per shift, i.e. at least once every eight hours. Four (4) specimens, distributed randomly and processed concurrently with the items, or four (4) items randomly selected shall be tested in accordance with STM-3. The specimens shall conform to MIL-DTL-16232. If any item/specimen in the sample fails, the quantity represented shall be rejected.

**2.4 Supplemental Oil Treatment Salt Spray Test.** Testing shall be accomplished at the time of first article and at least semi-monthly during production. Three (3) test panels for first article and three test panels per processing tank or dispenser used during production shall be prepared and tested in accordance with STM-4. The specimens shall conform to MIL-PRF-3150. If any test panel in the sample fails, the quantity represented shall be rejected.

## PART IV. CERTIFICATION REQUIREMENTS

The certification provisions of para. 1.3 for Certified Test Reports (CTRs) and Certificates of Conformance (COCs) shall apply. CTRs and COCs are required for the following:

NUMBER	CHARACTERISTIC	CERTIFICATION METHOD CTR	TEST DATA TO COMPLY WITH Dwg. 11010390
401	Phosphate Coating		

NOR CONTINUATION SHEET 6 OF 7  
 ECP LOS3022 - NOR 017  
 PROPOSED NEW REVISED QAP  
*Benjamin J. [Signature]* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 11010390
SYMBOL							14. PAGE NO. 5
AND DATE							

**QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET**

3.

**PART V. TEST METHODS AND PROCEDURES**

**STM-1. Protective Coating (Phosphate) Salt Spray Test.** This test shall be conducted in accordance with MIL-DTL-16232 and ASTM B117 prior to application of supplementary treatments.

**STM-2. Protective Coating (Phosphate) Weight Test.** This test shall be conducted as specified in MIL-DTL 16232.

**STM-3. Protective Coating (Phosphate) Supplemental Oil Treatment Salt Spray Test.** This test shall be conducted in accordance with MIL-DTL-16232 and ASTM B117 after application of Supplemental Oil Treatment.

**STM-4. Supplemental Oil Treatment Salt Spray Test.** This test shall be conducted in accordance with MIL-PRF-3150 and ASTM B117.

**PART VI. NOTES**

NOR CONTINUATION SHEET 7 OF 7  
 ECP LOS 3022 - NOR 017  
 PROPOSED NEW REVISED QAP  
*Kevin Maxwell* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 11010390
SYMBOL							14. PAGE NO. 6
AND DATE							

THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED

1. DATE (YYYYMMDD)  
20000710

Form Approved  
OMI No. 0704-0188

The public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.  
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCUREMENT ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.

2. PROCUREMENT ACTIVITY NO.  
LIS3022

3. DDAAC

4. ORIGINATOR  
a. TYPED NAME (First, Middle Initial, Last)  
Bennie J. Boswell

b. ADDRESS (Street, City, State, Zip Code)  
TACOM-ARDEC, AMSTA-AR-CCL-FM  
Rock Island, Il. 61299-7300

5. CAGE CODE  
19200

7. CAGE CODE  
19200

6. NSN NO.  
018

8. DOCUMENT NO.  
SQS289557

9. TITLE OF DOCUMENT  
Scale Rivet QAP

10. REVISION LETTER  
a. CURRENT  
b. NEW  
A

11. ECP NO.  
LIS3022

12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES  
40 mm Grenade Machine Gun, MK19, Mod 3

NOR SHT  
1 of 7

ECP SHT  
52 of 58

13. DESCRIPTION OF REVISION  
SEE NOR CONTINUATION SHEET 2 THRU 7 OF 7 DATED 00-07-10 FOR PROPOSED NEW REVISED QAP.

14. THIS SECTION FOR GOVERNMENT USE ONLY

- a. (X one)
- (1) Existing document supplemented by this NOR may be used in manufacture.
  - (2) Revised document must be received before manufacturer may incorporate this change.
  - (3) Custodian of master document shall make above revision and furnish revised document.

b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT  
OPM SMALL ARMS

c. TYPED NAME (First, Middle Initial, Last)  
ANDREW H. CLING

d. TITLE  
PROD. DIRECTOR

e. SIGNATURE  
*Andrew H. Cling*

f. DATE SIGNED (YYYYMMDD)  
18 Sep 00

15. a. ACTIVITY ACCOMPLISHING REVISION

b. REVISION COMPLETED (SIGNATURE)

c. DATE SIGNED (YYYYMMDD)

# QUALITY ASSURANCE PROVISIONS (QAP)

**1. COMMAND AGENCY:**

U.S. ARMY ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, N.J. 078 6-5000

**2. THESE QAPS FORM A PART OF DRAWING/SPECIFICATION 3269557 SPECIFIED IN THE CONTRACT.**

INSPECTION SHALL BE CONDUCTED AS SPECIFIED HEREIN AND IN ACCORDANCE WITH REFERENCED DOCUMENTS

**3. PART I. LIST OF APPLICABLE DOCUMENTS**

**DRAWINGS**

3269557 Rivet, Scale

**STANDARDS**

MIL-STD-1916 DOD Preferred Methods for Acceptance of Product

**SPECIFICATIONS**

MIL-DTL-16232 Phosphate Coatings, Heavy, Manganese or Zinc Base (for Ferrous Metals)  
 MIL-W-63150 Weapons and Support Materiel, Standard Quality Assurance Provisions for  
 MIL-PRF-3150 Lubricating Oil, Preservative, Medium

**NON-GOVERNMENT PUBLICATIONS**

ASTM B117 Standard Method of Salt Spray (Fog) Apparatus Operating

(Application for copies of ASTM documents should be addressed to American Society for Testing and Materials, 100 Bar Harbor Drive, West Conshohocken PA 19428-2959)

NOR CONTINUATION SHEET 2 OF 7  
 ECP L653022 - NDR 018  
 PROPOSED NEW REVISED QAP  
*Kevin Howell* 00-07-10

**DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.**

**REVISIONS**

4. RELEASE NUMBER																			
5. DATE																			
4. RELEASE NUMBER																			
5. DATE																			
REVISION STATUS OF SHEETS	6. REVISION	A	A	A	A	A	A												
	7. SHEET	1	2	3	4	5	6												
	6. REVISION																		
	7. SHEET																		
8. QAP FOR:	Rivet, Scale										FSCM:			CAGE CODE 19200					
9. SUBMITTED BY:											10. QAP NO.:			3269557					
11. DATE:	12. APPROVED:				13. RELEASE NO.			14. PAGE NO.			15. NO. OF PAGES								
990706					---			1			6								

# QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET

## PART II. CONFORMANCE PROVISIONS

### 1.0 General provisions.

1.1 Classification of characteristics. There are three classes of characteristics covered in this QAP. These are critical, major, and minor characteristics, as defined in MIL-STD-1916.

1.2 Workmanship. The workmanship provisions of MIL-W-63150 are applicable to this QAP.

### 1.3 Certification provisions.

1.3.1 Certified Test Reports (CTR). If CTR is specified in Part IV, the contractor shall make available to the Government a CTR for each lot of parts, assemblies, subsystems and systems by lot number prior to acceptance. This test report is in addition to, and not in lieu of, any rights of the Government under this contract or law. A CTR may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of the contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the report shall contain the following:

- a. Name of company and date.
- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. All inspections and tests required by contract (i.e., material, processes, performance, functional, etc.) shall be recorded in test reports. These reports shall identify each lot submitted for acceptance by lot number, the specification or drawing, revision and date, grade or type as applicable, number of specimens tested, specified characteristics and requirements, and actual results obtained.
- e. Reports of the raw material producer's chemical, mechanical, and physical analysis.
- f. A statement, as follows, certifying that material meets all requirements of the contract:

"The undersigned, individually, and as the authorized representative of the contractor, warrants and represents that: All the information supplied above is true and accurate; the material covered by this certificate conforms to all contract requirements (including but not limited to the drawings and specifications); the inspection and test results, and the analysis appearing herein are true and accurate; and this certificate is made for the purpose of inducing payment and with knowledge that the information and certification may be used as a basis for payment."

g. Signature and title of certifying official.

1.3.2 Certificate of conformance (COC). When COC is specified in Part IV, A certificate of conformance is required for Military Standard and commercial items, supported by inspection and test data, material analysis, or certification from the raw material producer or processor, and shall be made available to the Government for specifications covering raw material, processed material, and processes. The contractor shall make the COC available to the Government prior to or with the request to perform acceptance inspection approval by the Government. This is in addition to, and not in lieu of, any rights of the Government under this contract or law. A COC may be used as an element incident to, but shall not be used as the sole basis for, Government acceptance of contract item(s) unless so indicated in the technical documentation or contract. As a minimum, the COC shall contain the following:

a. Name of company and date.

NOR CONTINUATION SHEET 3 OF 7  
ECP LOS 3022 - NOR 018  
PROPOSED NEW REVISED QAP  
*[Signature]* 0007-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 3269557
SYMBOL							14. PAGE NO. 2
AND DATE							

ARDEC VI.0

# QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET

3.

- b. Contract number or purchase order number, national stock number and drawing number.
- c. Complete nomenclature of supplies together with lot number or other identification. The quantity in each lot or shipment shall be given.
- d. A statement, as follows, certifying that material meets all requirements of the contract:

**2. First article.**

**2.1 Submission.** Unless otherwise specified in the contract, a first article sample consisting of five QAP items shall be submitted for inspection and approval in accordance with the terms of this contract. The sample items will be subjected to any or all of the examinations and tests specified in this QAP and may be inspected for compliance with any or all of the requirements of the applicable drawing(s) and specification(s). The certification requirements of Part IV apply.

**2.2 Rejection.** If any sample item fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure to comply with any of the requirements.

**3. Verification.** Verification inspection shall consist of inspection of all conformance characteristics contained in Part III "Inspection Requirements" and Part IV "Certification Requirements" of this QAP. Failure to comply with the conformance criteria shall be cause for rejection of the lot or quantity represented by the sample. All other quality characteristics not specifically listed herein are subject to control under the contractor's quality program or inspection system.

**3.1 Lot formation.** Inspection lots shall comply with the lot requirements of MIL-STD-1916, paragraph 4.2.

**3.2 Attributes sampling inspection.** The provisions/procedures of MIL-STD-1916 are applicable to this QAP. Unless otherwise specified, attributes sampling for the conformance characteristics listed in Part III herein shall be IAW MIL-STD-1916, Table II, using the verification level cited in the conformance criteria columns of Part III. The procedure in MIL-STD-1916 for normal inspection shall be used at the start of production for current or previous suppliers of the item. For all new suppliers of the item, tightened inspection shall be used at the start of production and be continued until the criteria for normal inspection are met.

**3.3 Alternative verification provisions.** Unless otherwise specified, alternative verification provisions such as statistical process control (SPC) (preferred), variables sampling plans, or continuous sampling plans may be used by the contractor in lieu of the inspection provisions contained herein when such alternative(s) provide an equivalent or better level of quality, and provided they have been described in a written proposal which has been approved by the Government.

**3.4 Inspection Equipment.** Unless otherwise specified herein or in the contract, all inspection equipment required to perform the examinations and tests in this QAP shall be designed, documented and maintained by the contractor, including any fixtures necessary to accommodate the test procedures. Inspection equipment shall incorporate the appropriate measurement capability, precision and accuracy to assure rejection of all non-conforming product.

**3.5 Components and Assemblies.** All components shall conform to the drawings for those components prior to installation into an assembly.

NOR CONTINUATION SHEET 4 OF 7  
 ECP LOS 3022 - NOR OIB  
 PROPOSED NEW REVISED QAP  
*[Signature]* 00-07-10

								FSCM:	CAGE CODE
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16. REVISION									10. QAP NO.:
SYMBOL									3269557
AND DATE									14. PAGE NO.
									3

# QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET

## 3. PART III. INSPECTION REQUIREMENTS.

### 1. Classification of Conformance Characteristics

Rivet, Scale 3269557

<u>CLASS</u>	<u>CHARACTERISTIC</u>	<u>ZONE</u>	<u>CONFORMANCE CRITERIA</u>	<u>INSPECTION METHOD</u>
<b>CRITICAL</b>	None			
<b>MAJOR</b>			Level III	Visual
101	Missing or Defective Protective Finish		Level III	SMTE -1
102	Protective Coating (Phosphate) Salt Spray Test (See Table II)		Level III	SMTE-2
103	Protective Coating (Phosphate) Weight Test (See Table II)		Level III	SMTE -3
104	Supplemental Oil Treatment Slat Spray Test (See Table II)		Level III	SMTE-4
105	Protective Coating (phosphate) Supplemental Oil Treatment Sal Spray Test (See Table II)			
<b>MINOR</b>			Level II	SMTE
⊕	A M B ∅ .000	C-4	Level II	SMTE
202	.027	B-4	Level II	SMTE
203	Workmanship (See MIL-W-63150)		Level II	Visual
204	.083	C-4	Level II	SMTE

NOR CONTINUATION SHEET 5 OF 7  
 ECP LOS 3022 - NOR, D18  
 PROPOSED NEW REVISED QAP  
*Bern J. [Signature]*  
 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 3269557
SYMBOL							14. PAGE NO. 4
AND DATE							

# QUALITY ASSURANCE PROVISIONS (QAP) - C CONTINUATION SHEET

3.

## 2. Special sampling inspection.

**2.1 Phosphate Coating Salt Spray (Corrosion).** Testing shall be accomplished on a per lot basis or per shift, i.e., at least once every eight hours. Four (4) specimens, distributed randomly and processed concurrently with the items, or four (4) items randomly selected shall be tested in accordance with STM-1. The specimens shall conform to MIL-DTL-16212. If any item/specimen in the sample fails, the quantity represented shall be rejected.

**2.2 Phosphate Coating Weight.** Testing shall be accomplished on a per lot basis or shift, i.e., at least once every eight hours. Two (2) specimens, distributed randomly and processed concurrently with the items, or two (2) items randomly selected shall be tested in accordance with STM-2. The specimens shall conform to MIL-DTL-16232. If any item/specimen in the sample fails, the quantity represented shall be rejected.

**2.3 Phosphate Coating Supplemental Oil Treatment Salt Spray Test.** Testing shall be accomplished on a per lot basis or per shift, i.e. at least once every eight hours. Four (4) specimens, distributed randomly and processed concurrently with the items, or four (4) items randomly selected shall be tested in accordance with STM-3. The specimens shall conform to MIL-DTL-16232. If any item/specimen in the sample fails, the quantity represented shall be rejected.

**2.4 Supplemental Oil Treatment Salt Spray Test.** Testing shall be accomplished at the time of first article and at least semi-monthly during production. Three (3) test panels for first article and three test panels per processing tank or dispenser used during production shall be prepared and tested in accordance with STM-4. The specimens shall conform to MIL-PRF-3150. If any test panel in the sample fails, the quantity represented shall be rejected.

## PART IV. CERTIFICATION REQUIREMENTS

The certification provisions of para. 1.3 for Certified Test Reports (CTRs) and Certificates of Conformance (COCs) shall apply. CTRs and COCs are required for the following:

NUMBER	CHARACTERISTIC	CERTIFICATION METHOD	TEST DATA TO COMPLY WITH
		CTR	Dwg. 3269557
401	Phosphate Coating	COC	Dwg. 3269557
402	Material		

NOR CONTINUATION SHEET 6 OF 7  
 ECP LOS3022 - NOR 018  
 PROPOSED NEW REVISED QAP  
*James J. [Signature]* 00-07-10

						FSCM:	CAGE CODE 19200
16. REVISION							10. QAP NO.: 3269557
SYMBOL							14. PAGE NO. 5
AND DATE							

**QUALITY ASSURANCE PROVISIONS (QAP) - CONTINUATION SHEET**

3.

**PART V. TEST METHODS AND PROCEDURES**

- STM-1. Protective Coating (Phosphate) Salt Spray Test. This test shall be conducted in accordance with MIL-DTL-16232 and ASTM B117 prior to application of supplementary treatments.
- STM-2. Protective Coating (Phosphate) Weight Test. This test shall be conducted as specified in MIL-DTL-16232.
- STM-3. Protective Coating (Phosphate) Supplemental Oil Treatment Salt Spray Test. This test shall be conducted in accordance with MIL-DTL-16232 and ASTM B117 after application of Supplemental Oil Treatment.
- STM-4. Supplemental Oil Treatment Salt Spray Test. This test shall be conducted in accordance with MIL-PRF-3150 and ASTM B117.

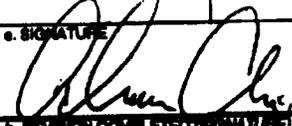
**PART VI. NOTES**

NOR CONTINUATION SHEET 7 (F7)  
 ECP LOS3022 - NOR 018  
 PROPOSED NEW REVISED QAP  
*Timothy J. Maxwell* 00-07-10

16. REVISION  SYMBOL  AND DATE					FSCM:	CAGE CODE 19200
						10. QAP NO.: 3269557
						14. PAGE NO. 6

11/21/00 - transitional

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PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.		PROCURING ACTIVITY NO. LOS3024	
DODAAC			
4. ORIGINATOR		5. CLASS OF ECP	
a. TYPED NAME (First, Middle Initial, Last) Bennie J. Boswell		II	
b. ADDRESS (Street, City, State, Zip Code) TACOM-ARDEC, AMSTA-AR-CCL-FM Rock Island, IL 61299-7300		6. JUST. CODE D	
8. ECP DESIGNATION		9. BASELINE AFFECTED	
a. MODEL/TYPE MK19/MOD3		FUNCTIONAL <input checked="" type="checkbox"/> PRODUCT	
b. CAGE CODE 19200		ALLOCATED	
c. SYSTEM DESIGNATION 40 mm Grenade Machine Gun		10. OTHER SYS./CONFIG. ITEMS AFFECTED	
d. ECP NO. LOS3024		e. TYPE F	
f. REV		10. OTHER SYS./CONFIG. ITEMS AFFECTED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
11. SPECIFICATIONS AFFECTED		12. DRAWINGS AFFECTED	
CAGE Code		Specification/Document No.	
Rev.		SCN	
CAGE Code		Number	
10001		E3269460	
19200		SQ3269460	
13. TITLE OF CHANGE Addition of Alternate Materials		15. PROCURING CONTRACTING OFFICER	
14. CONTRACT NO. LINE ITEM DAAE20-97-C-0247		a. NAME (First, Middle Initial, Last) Kristan A. Mendoza	
		b. CODE AMSTA-LC-C8CA	
		c. TELEPHONE NO. 309 782-8249	
16. CONFIGURATION ITEM NOMENCLATURE 40 mm Grenade Machine Gun, MK19, MOD 3		17. IN PRODUCTION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
18. ALL LOWER LEVEL ITEMS AFFECTED		18. ALL LOWER LEVEL ITEMS AFFECTED	
a. NOMENCLATURE Receiver		b. PART NO. 3269460	
		c. NSN 1010-01-301-8182	
19. DESCRIPTION OF CHANGE Adding additional alternate material specifications. Replacing obsolete casting inspection specification. Remove restricted use notice.  This ECP supersedes ECP LOS-3012 dated 23 May 2000.			
20. NEED FOR CHANGE a. More choices of alternate specifications increases the ability to buy smaller than mil run quantities of material. The casting inspection specification has been replaced. b. Previous ECP was written against an older drawing revision, making the from/to statements incompatible with the current drawing. Previous ECP also created a discrepancy between the drawing and the SQAP.			
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER N/A		22. EFFECT ON PRODUCTION DELIVERY SCHEDULE N/A	
23. RETROFIT			
a. RECOMMENDED ITEM EFFECTIVITY N/A		b. SHIP / VEHICLE CLASS AFFECTED N/A	
c. ESTIMATED KIT DELIVERY SCHEDULE N/A		d. LOCATIONS OR SHIP / VEHICLE NUMBERS AFFECTED N/A	
24. ESTIMATED COSTS / SAVINGS UNDER CONTRACT N/A		25. ESTIMATED NET TOTAL COSTS / SAVINGS N/A	
26. SUBMITTING ACTIVITY		b. TITLE	
a. AUTHORIZED SIGNATURE <i>Bennie J. Boswell</i>		<i>EMV TEL</i>	
27. APPROVAL / DISAPPROVAL			
a. CLASS I		b. CLASS II	
APPROVAL RECOMMENDED <input type="checkbox"/> DISAPPROVAL RECOMMENDED <input type="checkbox"/>		APPROVED <input type="checkbox"/> DISAPPROVED <input type="checkbox"/>	
c. CLASS II		CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/>	
d. GOVERNMENT ACTIVITY		e. SIGNATURE	
g. APPROVAL		i. SIGNATURE	
<input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		<i>[Signature]</i>	
h. GOVERNMENT ACTIVITY Opn Small Arms		j. DATE SIGNED (YYMMDD) 17 Oct 00	

THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED		(YYMMDD) 20000909	Form Approved OMB No. 0704-0188
<p>The public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCUREMENT ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>			<b>E. PROCUREMENT ACTIVITY NO.</b> LOS3024  <b>F. DODAAC</b>  <b>G. NOR NO.</b> 1  <b>H. DOCUMENT NO.</b> 3288460  <b>I. ECP NO.</b> LOS3024
<b>4. ORIGINATOR</b> <b>a. TYPED NAME (First, Middle Initial, Last)</b> Bennie J. Boswell		<b>b. ADDRESS (Street, City, State, Zip Code)</b> TACOM-ARDEC, AMSTA-AR-CCL-FM Rock Island, IL 61299-7300	<b>5. CAGE CODE</b> 19200  <b>7. CAGE CODE</b> 19200
<b>8. TITLE OF DOCUMENT</b> Receiver		<b>10. REVISION LETTER</b> <b>a. CURRENT</b> P  <b>b. NEW</b>	<b>11. ECP NO.</b> LOS3024
<b>12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES</b> 40 mm Grenade Machine Gun, MK19, Mod 3		<b>NOR SHT</b> 1 of 2	<b>ECP SHT</b> 2
<b>13. DESCRIPTION OF REVISION</b>  This NOR supersedes NOR LOS3012-3288460 dated 23 May 2000.  Change Note:  From:  "5. MATERIAL: ITEMS 1, 2: STEEL, 4130 PER AMS 6350, ASTM A506, ASTM A507. ITEMS 9, 10: STEEL, 4130 PER AMS 6360, ASTM A506, ASTM A507; OR STEEL PER ASTM A588; OR A572; OR A109 TEMPER NO. 2, 3, 4. ITEMS 3, 4: STEEL 4130, PER ASTM A322 OR A331. ITEMS 12, 17: STEEL 1018-1020 PER ASTM A101. ITEMS 5, 6, 7: INVESTMENT CASTINGS PER MIL-S-22141, COMP IC4130, IC8630. TENSILE TEST SHALL NOT APPLY. INSPECT CASTING PER MIL-STD-2175 CLASS 3, GRADE C. ITEMS 11, 13, 14, 15, 18: STEEL 4130 OR 8630, PER ASTM A122 OR A331. ALTN ITEM 5: STEEL WELDMENT (100% JOINT PENETRATION) 4130 PER ASTM A322 OR A331. ALTN ITEM 6, 7: STEEL 4130, 8630 PER ASTM A322 OR A331. ALTN ITEM 18: STEEL 4130 PER AMS 6360."			
<b>14. THIS SECTION FOR GOVERNMENT USE ONLY</b>			
<b>a. (X one)</b> <input checked="" type="checkbox"/> (1) Existing document supplemented by this NOR may be used in manufacture. <input type="checkbox"/> (2) Revised document must be received before manufacturer may incorporate this change. <input type="checkbox"/> (3) Custodian of master document shall make above revision and furnish revised document.			
<b>b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT</b> OPM SMALL ARMS		<b>c. TYPED NAME (First, Middle Initial, Last)</b> Andrew CLINE	
<b>d. TITLE</b> Prod Director		<b>e. SIGNATURE</b> 	
<b>15. a. ACTIVITY ACCOMPLISHING REVISION</b>		<b>b. REVISION COMPLETED (SIGNATURE)</b> 	
		<b>f. DATE SIGNED (YYMMDD)</b> 19/09/00  <b>g. DATE SIGNED (YYMMDD)</b>	

Continuation Sheet

NOR CONTINUATION SHEET 2 OF 2

ORIGINATOR NAME AND ADDRESS  
TACOM-ARDEC, AMSTA-AR-CCL-FM  
Rock Island, IL 61299-7300

CAGE CODE  
19200

DATE  
20000609

PAN  
**LOS3024**

NOR NO. 1  
DOCUMENT NO.  
**E3269460**

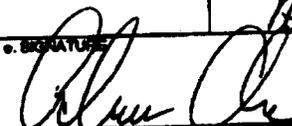
ECP NO.  
LOS3024

Change Note:

To:

**"5. MATERIAL: ITEMS 1, 2: STEEL, 4130 PER AMS 6350, SAE-AMS-S-18729, ASTM A506, OR ASTM A507. ITEMS 9, 10: STEEL, 4130 PER AMS 6350, SAE-AMS-S-18729, ASTM A506, ASTM A507; OR STEEL PER ASTM A588; OR ASTM A572; OR ASTM A109 TEMPER NO. 2, 3, 4. ITEMS 3, 4: STEEL 4130, PER ASTM A322, ASTM A331, AMS 6345, AMS 6348, AMS 6350, AMS 6351, AMS 6370, AMS 6528, SAE-AMS-S-6758 or SAE-AMS-S-18729. ITEMS 12, 17: STEEL 1018-1020 PER ASTM A108 OR AMS 5069. ITEMS 5, 6, 7: INVESTMENT CASTINGS PER MIL-S-22141, COMP IC4130, OR IC8630. TENSILE TEST SHALL NOT APPLY. INSPECT CASTING PER SAE-AMS-STD-2175 CLASS 3, GRADE 1. ITEMS 11, 13, 14, 15, 18: STEEL 4130 OR 8630, PER ASTM A322 OR ASTM A331, AMS 6345, AMS 6348, AMS 6350, AMS 6351, AMS 6370, AMS 6528, SAE-AMS-S-6758 OR SAE-AMS-S-18729. ALTN ITEM 5: STEEL WELDMENT (100% JOINT PENETRATION) 4130 PER ASTM A322 OR ASTM A331. ALTN ITEM 6, 7: STEEL 4130, 8630 PER ASTM A322, ASTM A331, AMS 6345, AMS 6348, AMS 6350, AMS 6351, AMS 6370, AMS 6528, SAE-AMS-S-6758 OR SAE-AMS-S-18729."**

In Zone A8, remove restricted use notice from drawing.

<b>NOTICE OF REVISION (NOR)</b> THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED		(YYYYMMDD) <b>20000609</b>	Form Approved (MB No. 0704-0188)
<small>The public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (5704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.  <b>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT BUYING CONTRACTING OFFICER FOR THE CONTRACT/PROCUREMENT ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</b></small>			2. <b>PROCURING ACTIVITY NO.</b> <b>LOS3024</b>
4. <b>ORIGINATOR</b> a. TYPED NAME (First, Middle Initial, Last) <b>Bennie J. Boswell</b>		b. ADDRESS (Street, City, State, Zip Code) <b>TACOM-ARDEC, AMSTA-AR-CCL-FM          Rock Island, IL 61298-7300</b>	6. <b>CAGE CODE</b> <b>19200</b>
		7. <b>CAGE CODE</b> <b>19200</b>	11. <b>NOR NO.</b> <b>2</b>
3. <b>TITLE OF DOCUMENT</b> <b>Receiver</b>		10. <b>REVISION LETTER</b> a. CURRENT <b>A</b>	12. <b>DOCUMENT NO.</b> <b>Q32289480</b>
		b. NEW	13. <b>ECF NO.</b> <b>LOS3024</b>
12. <b>CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECF APPLIES</b> <b>40 mm Grenade Machine Gun, MK19, Mod 3</b>		NOR SHT <b>1 of 1</b>	ECF SHT <b>4</b>
13. <b>DESCRIPTION OF REVISION</b> <p><b>This NOR supersedes NOR LOS3012-SQ32289480 dated 23 May 2000.</b></p> <p><b>SHEET 1, in Part I, Applicable Documents:</b></p> <p><b>Under STANDARDS:</b></p> <p><b>Add: "SAE-AMS-STD-2175 CASTINGS, CLASSIFICATION AND INSPECTION OF"</b></p> <p><b>SHEET 10, in table II, Special Sampling Inspection:</b></p> <p><b>Change:</b></p> <p><b>From: "12. Casting Inspection.          Sampling shall be in accordance with MIL-STD-2175.....shall be rejected"</b></p> <p><b>To: "12. Casting Inspection.          Sampling shall be in accordance with SAE-AMS-STD-2175.....shall be rejected."</b></p> <p><b>SHEET 12, in Part V, Test Methods and Procedures:</b></p> <p><b>Change:</b></p> <p><b>From: "STM-12 Casting Inspection.          This test shall be conducted in accordance with MIL-STD-2175."</b></p> <p><b>To: "STM-12 Casting Inspection.          This test shall be conducted in accordance with SAE-AMS-STD-2175."</b></p>			
14. <b>THIS SECTION FOR GOVERNMENT USE ONLY</b>			
a. (X one)	<input checked="" type="checkbox"/> (1) Existing document supplemented by this NOR may be used in manufacture. <input type="checkbox"/> (2) Revised document must be received before manufacturer may incorporate this change. <input type="checkbox"/> (3) Custodian of master document shall make above revision and furnish revised document.		
d. <b>ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT</b> <b>OPM SMALL ARMS</b>		c. <b>TYPED NAME (First, Middle Initial, Last)</b> <b>ANDREW CLINE</b>	
e. <b>TITLE</b> <b>PROD Director</b>		f. <b>SIGNATURE</b> 	
15.a. <b>ACTIVITY ACCOMPLISHING REVISION</b>		g. <b>DATE SIGNED (YYYYMMDD)</b> <b>19 OCT 00</b>	
		h. <b>REVISION COMPLETED (SIGNATURE)</b>	
		i. <b>DATE SIGNED (YYYYMMDD)</b>	

**ADDRESS CODE DISTRIBUTION  
FOR ECP/RFD/VECP**

1. Concurrent distribution of Value Engineering Change Proposals (VECPs), Engineering Change Proposals (ECPs), Request for Deviations (RFDs) shall be submitted by the Contractors as follows:

2. The preferred method of transmission is electronically to ECP-INPUT@RIA.ARMY.MIL (must be under 7MB), if hardcopies are submitted, the contractor shall submit copies as required and as identified below to: Director, U.S. Army Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-QAW (ECPs), Rock Island, IL 61299-7300 except for Chemical Items (see note below).

- a. VECPs - original plus 3 copies  
original plus 3 copies (Tools & Equipment)  
original plus 3 copies (Navy or Air Force)
- b. ECPs - original plus 2 copies  
original plus 2 copies (Tools & Equipment)  
original plus 2 copies (Navy or Air Force)
- c. RFDs - original plus 2 copies  
original plus 2 copies (Tools & Equipment)  
original plus 2 copies (Navy or Air Force)

**\*\*NOTE - All Chemical Items shall be submitted to: Commander, CBDCOM, ATTN: SCBRD-EN(II), Rock Island, IL 61299-7410.\*\***

- a. VECPs - original plus 3 copies
- b. ECPs - original plus 2 copies
- c. RFDs/RFWs - original plus 1 copy

3. Provide one copy designated 'Advance Copy' to:

a. Contracting Officer: Director, Armament and Chemical Acquisition, and Logistics Activity, Rock Island, IL 61299-8630 (TACOM-RI Items) or Commander, Operations Support Command, Rock Island, IL 61299-6000 (OSC Items).

b. Administrative Contracting Officer.

4. For VECPs only, provide one copy designated 'Advance Copy' to the Value Engineering Division: Commander, U.S. Army Operations Support Command, ATTN: AMSOS-RAV, Rock Island, IL 61299-6000.

5. When ECPs, NORs, RFDs are determined to be Urgent, Critical and/or Schedule impacting an action copy shall be provided to AMSTA-AR-QAW via data facsimile (FAX) to 309-782-6450. This transmission is to be immediately followed with the usual hard copy mailing.

*Attachment 012*

<b>ENGINEERING CHANGE PROPOSAL (ECP), PAGE 1</b>				1. DATE (YYMMDD) 010425		Form Approved OME No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 2 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Dept of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington, DC 20503. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.						2. PROCURING ACTIVITY NO. <b>L153028</b>	
4. ORIGINATOR						5. CLASS OF ECP	
a. TYPED NAME (First, Middle Initial, Last) GENERAL DYNAMICS ARMAMENT SYSTEMS			b. ADDRESS (Street, City, State, Zip Code) 291 NORTH STREET SACO, ME 04072			I	7. PRIORITY R
8. ECP DESIGNATION			9. BASELINE AFFECTED			X PRODUCT	
a. MODEL/TYPE 40MM, M.G.	b. CAGE CODE 26978	c. SYSTEM DESIGNATION MK19 MOD3			FUNCTIONAL		
					ALLOCATED		
d. ECP NO. 0247-E-0006			e. TYPE F	f. REV	10. OTHER SYS./CONFIG. ITEMS AFFECTED		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
11. SPECIFICATIONS AFFECTED				12. DRAWINGS AFFECTED			
	CAGE Code	Specification/Document No	Rev	CAGE Code	Number	Rev	NOR
a. SYSTEM				10001	E3269432	E	001
b. DEVELOPMENT				10001	E3269512	F	002
c. PRODUCT							
13. TITLE OF CHANGE Altn material specifications for Outer Feed Slide and Back Plate Weldment							
14. CONTRACT NO. AND LINE ITEM DAAE20-97-C-0247				15. PROCURING CONTRACTING OFFICER			
				a. NAME (First, Middle Initial, Last) Kristan A. Mendoza			
				b. CODE AMSTA-LC-CSCA	c. TELEPHONE NO. 309-782-0243		
16. CONFIGURATION ITEM NOMENCLATURE 40MM Machine Gun, MK19 MOD3						17. IN PRODUCTION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
18. ALL LOWER LEVEL ITEMS AFFECTED							
a. NOMENCLATURE See Continuation Sheet			b. PART NUMBER See Continuation Sheet		c. NSN See Continuation Sheet		
19. DESCRIPTION OF CHANGE This ECP proposes to add additional ASTM and AMS specifications to the Outer Feed Slide and Back Plate Weldment (See the attached NOR's for proposed drawing changes)							
20. NEED FOR CHANGE 4130 in bar format is becoming increasingly difficult to obtain in the quantities required to satisfy contract demands. 4130 in plate format is readily available.							
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER N/A				22. EFFECT ON PRODUCTION DELIVERY SCHEDULE N/A			
23. RETROFIT							
a. RECOMMENDED ITEM EFFECTIVITY None			b. SHIP/VEHICLE CLASS AFFECTED N/A				
c. ESTIMATED KIT DELIVERY SCHEDULE N/A			d. LOCATION OF SHIP/VEHICLE NUMBERS AFFECTED N/A				
24. ESTIMATED COST/SAVINGS UNDER CONTRACT N/A				25. ESTIMATED NET TOTAL COSTS/SAVINGS N/A			
26. SUBMITTING ACTIVITY				b. TITLE			
a. AUTHORIZED SIGNATURE				Configuration Manager			
27. APPROVAL/DISAPPROVAL							
a. CLASS I		b. CLASS II		c. CLASS II		DO NOT CONCUR IN CLASSIFICATION OF CHANGE	
<input checked="" type="checkbox"/> APPROVAL RECOMMENDED		<input type="checkbox"/> DISAPPROVAL RECOMMENDED		<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		<input type="checkbox"/> CONCUR IN CLASSIFICATION OF CHANGE	
d. GOVERNMENT ACTIVITY TACOM-ARDEC, AMSTA-AR-CCL-F				c. SIGNATURE		f. DATE SIGNED (YYMMDD)	
g. APPROVAL		h. GOVERNMENT ACTIVITY		i. SIGNATURE		j. DATE SIGNED (YYMMDD)	
<input checked="" type="checkbox"/> APPROVED		Ronald E. Libe		<i>[Signature]</i>		20/0524	
<input type="checkbox"/> DISAPPROVED		Chief, CCAC Prod & Field Spt Test					

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

A Attachment 013

ECP0247-E-0006

PAN

CONTINUATION SHEET

Block 1A. Nomenclature

Slide, Feed, Outer

Back Plate Weldment

Block 1B. Part Number

3269432

3269512

Block 1C. NSN

1010-01-129-1230

1010-01-129-1245

<b>NOTICE OF REVISION (NOR)</b>		1. DATE (YYMMDD) 010425	Form Approved OMB No. 0704-0188
This revision described below has been authorized for the document listed.			
Public reporting burden for this collection of information is estimated to average 2 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. <b>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</b>			2. PROCURING ACTIVITY NO. <b>11S3028</b>
			3. DODACC
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE 26978	6. NOR NO. <b>001</b> <del>3269432</del>
a. TYPED NAME (First, Middle Initial, Last) <b>GENERAL DYNAMICS AMAMENT SYSTEMS</b>	<b>291 NORTH STREET SACO, MAINE 04072</b>	7. CAGE CODE 10001	8. DOCUMENT NO. 3269432
9. TITLE OF DOCUMENT <b>Slide, Feed, Outer</b>	10. REVISION LETTER		1. ECP NO. (247-E-0006)
		a. CURRENT <b>E</b>	b. NEW
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES  <b>40MM Machine Gun, MK19 MOD 3</b>			
13. DESCRIPTION OF REVISION  1. In note 7: Change: <u>FROM:</u> "....per ASTM A322 or A331...."  <u>To:</u> "....per ASTM A322, A331, ASTM A829, AMS 6350, AMS 6351, AMS 6356, AMS 6528 or AMS-S-6758...."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (x) ONE	<input checked="" type="checkbox"/>	(1) Existing document supplemented by this NOR may be used in manufacture.	
	<input type="checkbox"/>	(2) Revised document must be received before manufacturer may incorporate this change.	
	<input type="checkbox"/>	(3) Custodian of master document shall make above revision and furnish revised document to:	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT	c. TYPED NAME (First, Middle Initial, Last)		
<b>TACOM-ARDEC, AMSTA-AR-CCL-F</b>			
d. TITLE <b>Ronald E. Elbe Chief, CCAC Prod &amp; Field Spt Team</b>	e. SIGNATURE 		f. DATE SIGNED (YYMMDD) <b>30010524</b>
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)		g. DATE SIGNED (YYMMDD)

<b>NOTICE OF REVISION (NOR)</b>		1. DATE (YYMMDD)  010425	Form Approved OMB No. 0704-0188
This revision described below has been authorized for the document listed.			
<small>Public reporting burden for this collection of information is estimated to average 2 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</small>			2. PROCURING ACTIVITY NO. <b>L153028</b>
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last) <b>GENERAL DYNAMICS AMAMENT SYSTEMS</b>	<b>291 NORTH STREET SACO, MAINE 04072</b>	<b>26978</b>	<b>002</b> <del>3260513</del>
		7. CAGE CODE	8. DOCUMENT NO.
		<b>10001</b>	<b>3269512</b>
9. TITLE OF DOCUMENT	10. REVISION LETTER		11. ECP NO.
<b>Back Plate Weldment</b>	a. CURRENT <b>F</b>	b. NEW	<b>0247-E-0006</b>
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES			
<b>40MM Machine Gun, MK19 MOD 3</b>			
13. DESCRIPTION OF REVISION			
<p>1. In note 8: Change:</p> <p><u>FROM:</u> "....per ASTM A322 or A331...."</p> <p><u>To:</u> "....per ASTM A322, A331, ASTM A829, AMS 6350, AMS 6351, AMS 6356, AMS 6528 or AMS-S-6758...."</p>			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (x) ONE	<input checked="" type="checkbox"/>	(1) Existing document supplemented by this NOR may be used in manufacture.	
	<input type="checkbox"/>	(2) Revised document must be received before manufacturer may incorporate this change.	
	<input type="checkbox"/>	(3) Custodian of master document shall make above revision and furnish revised document to:	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT		c. TYPED NAME (First, Middle Initial, Last)	
<b>TACOM ARDEC, AMSTA AR GCL F</b>			
d. TITLE	e. SIGNATURE	f. DATE SIGNED (YYMMDD)	
<b>Ronald E. Eibe Chief, CCAC Prod &amp; Field Spt Team</b>		<b>2004/0524</b>	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	g. DATE SIGNED (YYMMDD)	

DD Form 1695, APR 92

**DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.**

**ATTACHMENT 014  
WILL NOT BE POSTED TO THE WEB**

**MK19 GMG Comparison Test Spare Parts (5-29-01)**

PART NAME	NSN	P/N	QTY-EA
EXTRACTOR, CARTRIDGE RH	1010-01-122-9540	3269449	1
EXTRACTOR, CARTRIDGE, LH	1010-01-122-9541	3269448	1
FIRING PIN	1010-01-122-9675	3269456	1
FRONT WASHER	1010-01-122-9554	3269459	50
ALIGNMENT GUIDE	1010-01-123-6708	3269458	3
CAM FOLLOWER, LH	1010-00-122-5878	2680964	3
CAM FOLLER, RH DBL	1010-01-235-0389	5526209	3
BLANK WASHER	1010-01-133-0829	5526203	6
PRIMARY PAWL	1010-01-123-6283	3269436	3
ROUND POSITIONING BLOCK	1010-01-123-6094	3269439	3
PIN, LOCK	5315-01-123-6268	3269479	6
PIN, GROOVED, HEADLESS	5315-00-281-3054	MS51605-13	6
LOCK, COVER	1010-01-122-9556	3269478	6
PIN, STL	5315-00-150-3838	MS51605-19	6
HANDLE, LOCK	1010-01-123-6697	3269477	3
SCREW, SET, NYLON POINT	1010-00-133-8276	2655776	200
SCREW, SELF-LOCKING	5305-00-869-1097	MS21295-16	100
PLATE, LOCK, ASSEMBLY	1010-01-133-0824	5526198	3
FEED SLIDE STOP KIT	1010-01-170-9940	3269416	2
SCREW, SELF-LOCKING	5305-00-366-6236	2680889-1	100
CAP-PLUG, PROTECTIVE, DUST	1010-01-129-1237	3269471	3
WASHER, SPRING	5310-01-122-9631	3269474	6
SPRING, HELICAL, COMPRESSION	5360-01-122-9603	3269425	3
SEAR, FIRING PIN	1010-01-122-9677	3269467	12
SPACER, SLEEVE, SEAR, BUFFER	1010-01-133-0827	5526201	3
SPRING, ALIGNMENT GUIDE	5360-01-123-6852	3269468	3
ROD, PAWL	5315-01-123-6096	3269434	3
ROD, PAWL	5315-01-123-6095	3269435	3
PIN, SPRING	5315-00-598-2933	MS171512	3
WASHER, SLOTTED	5310-01-123-6265	3269493	3
TOP COVER PIN	1010-01-123-6092	3269472	6
ROD GUIDE	1010-01-123-6088	3269481	2
SPRING	5360-01-123-6197	3269487	3
OGIVE PLUNGER SPRING	5360-01-124-4410	3269455	2
FIRING PIN COVER	1010-01-122-9555	3269452	3
SCREW, CAP, SELF LOCKING	5306-00-051-4070	MS90727-28	30

Attachment 015



**DEPARTMENT OF THE ARMY  
UNITED STATES ARMY TANK - AUTOMOTIVE AND ARMAMENTS COMMAND  
ROCK ISLAND, ILLINOIS 61299-7630**

REPLY TO  
ATTENTION OF

AMSTA-LC-CSC-B

February 21, 2001

SUBJECT: Contract DAAA09-94-E-0003

Mr. Jim Reed  
General Dynamics Armament Systems  
291 North Street  
Saco, ME 04072-0890

Dear Mr. Reed,

Reference letter dated February 10, 2001 regarding request for rent free use of government equipment on Solicitation DAAE20-00-R-0104.

Your request for rent free use is authorized subject to the following conditions:

1. DD Form 770's will be provided for all equipment that is laidaway (3D). Equipment reactivated will be properly relaidaway at the conclusion of the contract unless otherwise specified by the contracting officer.
2. Approval of this request does not relieve prior responsibility for reactivating the equipment. The responsible contractor for reactivating the equipment is also liable for relayaway.
3. Use of equipment is denied on any item that is identified to be in poor condition (A6, F9, HX, HS).
4. Equipment is authorized on an "as is, where is" basis and will be on a non-interference basis.

*Attachment 016*

If there are any further questions please contact  
Kathy Lannan, AMSTA-LC-CSC-B, 309-782-6444.

Sincerely,

A handwritten signature in black ink, appearing to read "Adelaide J. Tkatch". The signature is written in a cursive style with a large initial "A".

ADELAIDE J. TKATCH  
Contracting Officer

CONTRACT DATA REQUIREMENTS LIST  
DD FORM 1423 (MECHANIZED)

CATEGORY: MISC SYSTEM/ITEM: MK 19 GMG  
TO CONTRACT/PR: M119801A

- |                            |                                   |                          |
|----------------------------|-----------------------------------|--------------------------|
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| 3. SUBTITLE                |                                   |                          |
| 4. DATA ITEM NUMBER        |                                   |                          |
| 5. CONTRACT REFERENCE      |                                   |                          |
| 6. TECHNICAL OFFICE        | 7. DD 8. APP 9. DIST STATEMENT    |                          |
|                            | 250 CODE REQUIRED                 |                          |
| 10. FREQUENCY              | 11. AS OF DATE                    | 15. TOTAL:               |
| 12. DATE OF 1ST SUBMISSION | 13. DATE OF SUBSEQUENT SUBMISSION |                          |
| 16. REMARKS                |                                   |                          |

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- |                                  |                            |                   |
|----------------------------------|----------------------------|-------------------|
| 1. A001                          | 14. AMSTA-AR-CCL-F (ECALS) | / /<br>/ /        |
| 2. CONFIGURATION CHANGE CONTROL* |                            |                   |
| 3. ENGINEERING ACTIONS           |                            |                   |
| 4. DI-CMAN-81554                 |                            |                   |
| 5. SECTION C                     |                            |                   |
| 6. AMSTA-AR-ES                   | 7. NO 8. - 9. **           |                   |
| 10. ASREQ                        | 11. ---                    | 15. TOTAL 0/ 0/ 0 |
| 12. ASREQ                        | 13. ASREQ                  |                   |

16. REMARKS  
PREPARE ENGINEERING ACTIONS IAW DI-CMAN-81544 AND SUBMIT ELECTRONICALLY VIA ECALS WORLDWIDE WEB PAGE [HTTP://EDMD4.PICA.ARMY.MIL/](http://EDMD4.PICA.ARMY.MIL/). \*DATA INFORMATION PACKET \*\*DISTRIBUTION STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIGURATION MANAGER. THE POC FOR ECALS IS LEE SADAUSKAS, AMSTA-AR-QAW, (973) 724-6626 LEES@PICA.ARMY.MIL.

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- |  |  |  |
|--|--|--|
| 1. A002  | 14. AMSTA-AR-QAC (D) QAR CO (LT ONLY) AMSTA-AR-QAW-C (LT ONLY) (R) | (1) / 1/<br>/ /<br>/ /<br>(2) / /<br>/ / |
| 2. SPECIAL INSPECTION EQUIPMENT DESCRIPTIVE DOC. |  |  |
| 3. AIE DESIGN DOCUMENTATION                      |  |  |
| 4. DI-QCIC-81006*                                |  |  |
| 5. SECTION E                                     |  |  |
| 6. AMSTA-AR-QA                                   | 7. XX 8. A 9. N/A  |  |
| 10. ONE/R  | 11. N/A  | 15. TOTAL 0/ 1/ 0                        |
| 12. **   | 13. WHEN REV.  |  |

16. REMARKS  
\* BLOCK 4: DO NOT ADDRESS PARAGRAPHS 10.1, 10.2, 10.4.1(f) AND 10.4.2. IGNORE ALL REFERENCE TO THE WORD "SPECIAL" IN DID. SUBMIT FOR ALL CRITICAL, SPECIAL AND MAJOR CHARACTERISTICS IN SPECIFICATION OR QAP. \*\* BLOCK 12: SUBMIT 30 DAYS PRIOR TO FA, OR PRODUCTION, IF FA IS WAIVED. THE GOVERNMENT WILL RESPOND WITHIN 30 DAYS OF RECEIPT OF ORIGINALS AND REVISIONS REVISIONS ARE TO BE SUBMITTED WITHIN 10 DAYS OF RECEIPT OF GOVERNMENT RESPONSE. IF DOCUMENTATION WAS APPROVED ON PRIOR CONTRACT AND NO CHANGES WERE MADE, SUBMIT

Exhibit A

ONLY EVIDENCE OF PRIOR APPROVALS.

email: (1)aie-qac@pica.army.mil (2)amsta-ar-qa-cdrl@ria-emh2.army.mil

Text:Microsoft Office 97

Drawings:AutoCAD-Release 14(Expressed mailed hard copies will be accepted)

Files may be compressed using ZIP program.

WARNING: Large packages may cause delays in delivery using mail internet.

Email subject line must contain end item nomenclature.

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- |   |         |             |         |
|---|---------|-------------|---------|
| 1. A003                                   |         | 14.         |         |
|   |         | PROCUREMENT | / /     |
| 2. TEST PROCEDURE/ PHOSPHATE COATING PRE- |         | CONTRACTING | / /     |
| 3. PRODUCTION PROCEDURE                   |         | OFFICER     | / 1/    |
| 4. DI-NDTI-80603*                         |         |             |         |
| 5. MIL-DTL-16232,PARA 3.1                 |         |             |         |
| 6. AMSTA-AR-WEP-RM                        | 7. XX   | 8. A        | 9. N/A  |
| 10. ONE/R                                 | 11. N/A | 15. TOTAL   | 0/ :/ 0 |
| 12. 60 DAC                                | 13. N/A |             |         |

16. REMARKS

BLOCK 8 CONT.-PRIOR TO PRODUCTION, APPROVAL THROUGH THE CONTRACTING OFFICER IS REQUIRED WITHIN 60 DAYS AFTER CONTRACT AWARD. A DD FORM 250 IS NOT REQUIRED FOR PHOSPHATE COATING PROCEDURE APPROVAL. CONTRACTOR FORMAT ACCEPTABLE. SHALL BE SUBMITTED ON AN IBM COMPATIBLE 3-1/2" DISKETTE IN RICH TEXT FORMAT (RTF).

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- |                                      |           |               |         |
|--------------------------------------|-----------|---------------|---------|
| 1. A004                              |           | 14.           |         |
|                                      |           | AMSTA-LC-CIAT | / 1     |
| 2. TRANSPORTATION DISCREPANCY REPORT |           |               |         |
| 3.                                   |           |               |         |
| 4. DI-MGMT-80544A                    |           |               |         |
| 5. SOW, ACTBY INST,para 3a(1)        |           |               |         |
| 6. AMSTA-LC-CIA                      | 7. NO     | 8.            | 9. N/A  |
| 10. ASREQ                            | 11. ASREQ | 15. TOTAL     | 0/ 1' 0 |
| 12. *                                | 13.       |               |         |

16. REMARKS

\*SUBMISSION REQUIRED UPON DISCOVERY OF TRANSPORTATION DISCREPANCY WHEN MATERIEL IS RECEIVED AT CONTRACTOR'S FACILITY.  
E-MAIL: mosleya@tacom.army.mil

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- |                                  |           |               |         |
|----------------------------------|-----------|---------------|---------|
| 1. A005                          |           | 14.           |         |
|                                  |           | AMSTA-LC-CIAC | / 1/    |
| 2. REPORT OF SHIPPING (ITEM) AND |           |               |         |
| 3. PACKAGING DISCREPANCY         |           |               |         |
| 4. DI-MGMT-80503                 |           |               |         |
| 5. SOW,ACTBY INST,para 4a(2)     |           |               |         |
| 6. AMSTA-LC-CIA                  | 7. NO     | 8.            | 9. N/A  |
| 10. ASREQ                        | 11. ASREQ | 15. TOTAL     | 0/ 1/ 0 |

12. \*

13.

16. REMARKS

\*SUBMISSION REQUIRED UPON DISCOVERY OF SHIPPING DISCREPANCY WHEN MATERIEL IS RECEIVED AT CONTRACTOR'S FACILITY. REPORT SHALL BE SUBMITTED WITHIN 3 DAYS OF DISCOVERY.

E-MAIL: rods@ria.army.mil

1. A006

14.

AMSTA-LC-CIAT

/ 1/

2. REQUEST FOR GOVERNMENT FURNISHED

3. MATERIEL (GFM)

4. DI-MGMT-80408B

5. SOW, ACTBY INST, para 5

6. AMSTA-LC-CIA

7. NO

8.

9.N/A

10. ASREQ

11. ASREQ

15. TOTAL

0/ 1, 0

12. \*

13.

16. REMARKS

\*SUBMISSION REQUIRED TO RECEIVE GFM

E-MAIL: mosleya@tacom.army.mil

1. A007

14.

AMSTA-LC-CIAT

/ 1/

2. GOVERNMENT FURNISHED MATERIEL (GFM)

3. CONSUMPTION REPORT

4. DI-MGMT-80438B

5. SOW, ACTBY INST, para 6

6. AMSTA-LC-CIA

7. DD

8.

9. N/A

10. MTHLY

11. 0 TIME

15. TOTAL

0/ 1/ 0

12. 40 DAC

13.

16. REMARKS

SUBMISSION REQUIRED TO REFLECT GFM CONSUMED DURING REPORT PERIOD-NEGATIVE REPORT REQUIRED. BLK 10:10TH DAY OF MONTH FOLLOWING REPORT MONTH.

E-MAIL: mosleya@tacom.army.mil

1. A008

14.

AMSTA-LC-CIMD\*\*

/ 1/

2. REPORT OF RECEIPTS, INVENTORY ADJUSTMENTS

3. AND SHIPMENTS

4. DI-MGMT-80442

5. PARA 3,4,6,ACTBY INST

6. AMSTA-LC-CIA

7. NO

8.

9.N/A

10. MTHLY

11. ASREQ

15. TOTAL

0/ 1/ 0

12. \*

13.

16. REMARKS

\*SUBMISSION REQUIRED MONTHLY ONLY WHEN MATERIEL IS ON HAND FOR MODIFICATION,  
WARRANTY, AND/OR STORAGE.

\*\*E-MAIL: amsta-lc-cimd@ria.army.mil

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APPROVED BY: STEPHEN J HANSEN, SDMO, AMSTA-AR-QAD

DATE: 08/24/2000