

MIL-C-63092 (PA) 28 July 1976

MILITARY SPECIFICATION

CARTRIDGE, 40MM, RED STAR, PARACHUTE, M662

METAL PARTS

AND

LOADING, ASSEMBLING AND PACKING

This specification is approved for use by Picatinny Arsenal, Department of the Army and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 This specification covers the metal parts and loading, assembling and packing for one type of cartridge designated as Cartridge, 40MM, Red Star, Parachute, M662.

2. APPLICABLE DOCUMENTS

2.1 <u>Issues of Documents</u> - The following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

SPECIFICATIONS

MILITARY

MIL-P-223

- Black Powder

MIL-C-5541

- Chemical Films and Chemical Film Materials for Aluminum and

Aluminum Alloys

MIL-P-22264

- Powders, Ignition, Gasless

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Picatinny Arsenal, Dover, NJ 07801 by using the self addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC: 1310

MIL-A-	48078
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- Ammunition, Standard Quality Assurance Provisions, General Specification For

SMANDARDS

MILITARY

MIL-STD-105	_	Samp1:	ing	Proced	lures	and	Tables
		for T	nspe	ction	hv A	ttril	hutes

MIL-STD-331	_	Fuze at	nd	Fuze	Components,	Envi-
		ronmen	tal	and	Performance	Tests
		for				

MIL-STD-1169 - Packaging, Packing and Marking for Shipment of Inert Ammunition Components

MIL-STD-1234 - Pyrotechnics Sampling, Inspection and Testing

DRAWINGS

PICATINNY ARSENAL

9255145

PRODUCT AND PACKING DRAWINGS

	Parachute, M662
9209204	- Box, Ammo, Metal for Cartridge, 40MM, White Star, Cluster or Smoke
	Canopy or Parachute

- Cartridge, 40MM, Red Star,

9209205 - Box, Wirebound, Packing, Ammunition for Cartridge, 40MM, White Star, Cluster or Smoke Canopy or

Parachute

INSPECTION EQUIPMENT DRAWINGS

9202770 -- Chamber Gage

9202783 - Alignment Check

- Limit Check
- Tunnel for Light Intensity Measurement
- Procedure for Light Output Measurement
- Photocell Checkout Procedure
- Photometer Head with Cell
- Tube, Sight
- Cover
- Bracket, Tube
- Gasket, Rear
- Gasket
- Cabinet
- Hood
- Brakcet
- Holder
- Spring
- Color Value
- Photocell

2.2 Other Publications - The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on the date of invitation for bids or request for proposal shall apply.

CODE OF FEDERAL REGULATIONS

TITLE 49 - Transportation, Parts 100-199

(The Code of Federal Regulations is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Orders should specify "49 CFR 100-199 (latest revision)").

AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM B 117-73 - Standard Method of Salt Spray (Fog) Testing

(Application for copies should be addressed to: American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pa. 19103)

3. REQUIREMENTS

- 3.1 <u>Material</u> Materials shall be in accordance with the applicable drawings and specifications.
- 3.2 <u>Cartridge</u> The cartridge shall comply with all requirements specified on Drawing (Dwg.) 9255145, all associated drawings, and with all requirements specified in applicable specifications.
- 3.3 <u>Transportation Vibration</u> The cartridge shall comply with the following requirements:
- 3.3.1 The cartridge shall be safe to transport following this test (See 6.6).
- 3.3.2 There shall be no evidence of external damage to the cartridge that will affect the intended function (See 6.7).
- 3.4 Functioning The cartridge shall comply with the following requirements;
- 3.4.1 Altitude The projectile shall function at an average altitude of 600 + 100 feet.
- 3.4.2 Burning of Illuminate Assembly The illuminant assembly shall burn in the air for 30 seconds min. while suspended from the parachute.

- 3.4.3 Parachute The parachute shall not separate from the illuminant assembly at ejection or delay opening from time of ejection for more than 5 seconds.
 - 3.4.4 Firing No projectile shall stick in the gun bore.
- 3.4.5 Hot Temperature (160 degrees F. plus or minus 5 degrees F.) The cartridge shall comply with the requirements of 3.4.1, 3.4.2, 3.4.3 and 3.4.4.
- 3:4.6 Ambient Temperature (70 degrees F. plus or minus 5 degrees F.) The cartridge shall comply with the requirements of 3.4.1, 3.4.2, 3.4.3 and 3.4.4.
- 3.4.7 Cold Temperature (-65 degrees F. plus or minus 5 degrees F.) The cartridge shall comply with the requirements of 3.4.1, 3.4.2, 3.4.3 and 3.4.4.
- 3.5 Workmanship All parts and assemblies shall be fabricated, loaded and assembled in a thorough, workmanlike manner. They shall be free of burrs, sharp edges, cracks, dirt, grease, rust and other foreign matter. The cleaning method used shall not be injurious to any parts, nor shall the parts be contaminated by the cleaning agents. Exterior surface coatings shall be continuous; however, a few light scratches not exposing base material may be permitted. All required marking and stamping shall be neat and sharply defined.
- 3.6 First Article Inspection This specification contains technical provisions for first article inspection. Requirements for the submission of first article samples by the contractor shall be as specified in the contract.

4. QUALITY ASSURANCE PROVISIONS

- 4.1 Responsibility for Inspection and Standard Quality Assurance Provisions Unless otherwise specified herein or in the contract, the provisions of MIL-A-48078 shall apply and are hereby made a part of this detail specification.
- 4.2 <u>Classification of Inspections The following types of inspection shall be conducted on this item:</u>
 - a. First Article Inspection
 - b. Quality Conformance Inspection

4.3 First Article Inspection -

4.3.1 <u>Submission</u> - The contractor shall submit a first article as designated by the Contracting Officer for evaluation in accordance with the provisions of $4.\overline{3}.2$. The first article sample shall consist of the following items in sample quantities as indicated.

Part Description	Drawing	<u>Quantity</u>
Body	9243900	25
Ogive Tube Delay Carrier	9251920 9244311 9243886	(5 painted) 25 25 25 (5 for Solt Sproy)
Plug Anchors Illuminant Loading Assembly	9243907 9252412	(5 for Salt Spray) 25 25
Cartridge	9255145	465 (440 to a Government Proving Ground for Ballistic Testing)
Delay Loading Assembly Parachute Assembly	9243885 9243906	25 25

4.3.2 Inspections to be Performed - See MIL-A-48078 and Table I herein.

4.3.3 Rejection - See MIL-A-48078 and the following:

4.3.3.1 Proving Ground Tests -

- a. Any critical defect occurs in any phase (see Table III).b. Average altitude of the total sample fails the applicable requirement (see Table III and 3.4.1).
- c. A total of eight (8) or more in the hot phase fail any of the following:
 - (1) Parachute failure (See 3.4.3).
 - (2) Item fails to function (See Table III).
 (3) No illumination (See Table III).

Burning time should be recorded for informational purposes (average).

- d. A total of twenty-two (22) or more in the ambient phase fail any of the following:
 - (1) Burning time incorrect (See 3.4.2) (Average).

- (2) Parachute failure (See 3.4.3).(3) Item fails to function (See Table III).
- e. A total of eight (8) or more in the cold phase fail any of the following:

(1) Parachute failure (See 3.4.3).

- (2) Item fails to function (See Table III). (3) No illumination (See Table III).

Burning time should be recorded for informational purposes (Average).

f. Two (2) or more of the total sample are below an altitude of 350 ft (See Table III).

TABLE 1 - FIRST ARTICLE INSPECTION CLASSIFICATION OF DEFECTS. & TESTS

ı		CLASSIFICATION OF D	UEFEC IS &	& IESIS		MIL-C- 63092 (PA)
Ш	PARAGRAPH	TITLE				DRAWING NUMBER
		Cartridge and Components		SHEET]	1 of 2	See Below NEXT HIGHER ASSEMBLY
	CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD
		Body (Dwg, 9243900) Prior to painting Examination for defects Salt Spray	20 5		8. s.	4.4.2.3 4.5.3
		After painting Examination for defects	ال		ر. د	4.4.2.2
8		Ogive (Dwg. 9251920) Examination for defects			3.2	.4.4.2.3
		Tube (Dwg. 9244311) Examination for defects	25		3.2	4.4.2.4
		Delay Carrier (Dwg, 9243886) Examination for defects Salt Spray	20		3.2	4.4.2.5
		Plug Anchor (Dwg.9243907) Examination for defects	25		3.2	4.4.2.6
<u> </u>		Illuminant Assembly (Dwg. 9252412) Examination for defects Candle Power	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		3.2 3.2	4.4.2.7 4.5.4
	NOTES:					

TABLE 1 - FIRST ARTICLE INSPECTION CLASSIFICATION OF DEFECTS & TECTS

	CLASSIFICATION	CALION OF DEFECTS	S & IESIS		MIL-C-53092 (PA)
PARAGRAPH	APH TITLE				. ≍
	Cartridge and Components		SHEET	2 0F 2	See Below NEXT HIGHER ASSEMBLY
CATEGORY	DRY EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD
	Parachute Assembly (Dwg. 9243906) Examination for defects	25		3.2	4,4,2,8
	Delay Loading Assembly (Dwg. 9243885) Burn time	25	· · · · · · · · · · · · · · · · · · ·	3,2	4.5.5
9	Cartridge (Dwg. (9255145) Examination for defects Full test of projectile *Transportation-vibration *Air pressure	25 25 440 440			1,4,2,12 1,5,6 1,5,7 1,5,8
	Functioning Hot Ambient Cold	80 280 80 80			4.5.9.1 4.5.9.2 4.5.9.3
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NOTES:	*Prior to submission of the 440 san the samples shall be inspected at	ples to a Gov't the contractors	proving gr plant for	ound f	or functioning tests, tests.

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4.4 Quality Conformance Inspection -

- 4.4.1 <u>Inspection Lot Formation</u> Inspection lots shall comply with the lot formation provisions of MIL-A-48078. In addition, each inspection lot shall contain:
- a. Projectile metal parts from one interfix lot number from one manufacturer.
 - b. Delay composition from not more than one lot number.
 - c. Igniter composition from not more than one lot number.
 - d. Black powder from not more than one lot number.
- e. Illuminant composition produced by one manufacturer under one continuous set of operating conditions and which consist of one or more batches that have been subjected to the same unit chemical or physical mixing process intended to make the final product homogeneous.
- f. Cartridge case loaded assemblies from one interfix lot number from one manufacturer.
- $\ensuremath{\mathtt{g.}}$ Illuminant assemblies from one interfix lot number from one manufacturer.
 - h. Ignition composition from not more than one lot number.
- i. Delay Assemblies from one interfix lot number from one manufacturer.

4.4.2 Examination - See MIL-A-48078.

a. <u>Sampling Plans</u> - Unless otherwise specified in the Classification of Defects and Test Tables, sampling plans for major and minor defects shall be in accordance with MIL-STD-105, Inspection Level II.

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PARAGRAPH	TITLE				DRAWING NUMBER
4.4.2.1	Body, prior to Painting		SHEET	1 or 2	9243900 -1
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CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AGL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD
Critical	None defined				
Major 101	meter		0.40%	3.2	Gage
102	oi larges rgest out		0.40%		Gage
103 104	Second Largest outside diameter Concentricity of second largest outside		% J C % O 7 C 0 7	•). dg ec.
105	inside insid		•	•	09 86 09 00 00 00
106	מדמן.	*	· *		1.55.3 3.00
107	of thread of thread,		0.40%	n m	rage Gage
109	ν Σ		•	2,	Саде
110	Metal defective		0.40%	~ ~ ~ ~	Visual
Minor 201	(1)		0.65%	ი ი ი ი	Gage
202	diameter		0.0 0.0 0.0 0.0 0.0	ν.ς. 	10 00 00 00 00 00 00 00 00 00 00 00 00 0
700 704	or rocacing blength		0,65%	3.5	Gage
205			0 0 0 0 0 0 0 0 0	w w	Gage Gage
	ance to rotating pand	i			31
NOTES: * Sa	Sampling and rejection shall be in accordance	with	MIL-C-55	554T.	

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Body, prior to Painting Body, prior to Painting SAMPE OCON						DRAWING NICKBED
Evidence of poor workmanship 0.65% 3.5 Visual	PARAGRAPH 4.4.2.1	prior		SHEET	2 of	DRAWING NUMBER 9243900 NEXT HIGHER ASSEMBLY
Evidence of poor workmanship 0.65% 3.5	CATEGORY	EXAMINATION	NO. OF SAMPLE UNITS	AQL CR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD
NOTES:	207	Evidence of poor workmanship		•	3.5	Visual
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MIL-C-63092 (PA)	DRAWING NUMBER 9243900	NEXT HIGHER ASSEMBLY			Gage	Visual				,		 	
		1 OF 1	REQUIREMENT PARAGRAPH		3.2	3, 2	 						
CTION & TESTS		SHEET	AQL OR 100%		0.40%	0.65%							
CE INSPECTION DEFECTS & TES			NO. OF SAMPLE UNITS										
QUALITY CONFORMANCE CLASSIFICATION OF DE	TITLE	Body after Painting	EXAMINATION OR TEST	None defined	Second largest outside diameter	Color incorrect		,					
	PARAGRAPH	4.4.2.2	CATEGORY	Critical	Major. 101	Minor 201						NOTES:	

QUALITY CONFORMANCE INSPECTION CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH	TITLE		1		DRAWING NUMBER
			7		9251920
4.4.2.3	Ogive				NEXT HIGHER ASSEMBLY
CATEGORY	EXAM:NATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9252411 PARAGRAPH REFERENCE //INSPECTION METHOD
Critical 1	Incorrect letter	(See	100%	3.2	Visual
Major 101	Large outside diameter		%04.0	3.2	Gage
8 8 7 0 1 14	= 5		0.40%		Gage Gage Gage
Minor 201 202 203	Total length Width of slots Diameter of groove		000		Gage Gage Gage
204			10.10	3.5	Gage Visual
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PARAGRAPH	TIFLE				DRAWING NUMBER ロンムムマココ
η · Ζ · η · η	Tube		SHEET]	1 of 1	NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9252412 PARAGRAPH REFERENCE
Critical	None defined		į		
Major 101 102 103	Outside diameter Wall thickness Perpendicularity of ends		0.40% 0.40% 0.40%	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	റിമുളം റിമുളം വുള്ള
Minor 201 202	Total length Evidence of poor workmanship		0.05%	w w u r	Gage Visual
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QUALITY CONFORMANCE INSPECTION CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH	TITLE				DRAWING NUMBER
			13310	Ç	9243886
4.4.2.5	Delay Carrier		1	r-i 5	NEXT HIGHER ASSEMBLY 9243885
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL. OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE //INSPECTION METHOD
Critical	None defined ,				
Major	. •				
1		*	*	3.2	4.5.3
705 102			0.40%	w. 0,0	Gage
104	<u> </u>		0.40%	0.00 10.01	rage Gage
105	Concentricity of small inside diameter				
90T	with large inside diameter Large inside diameter		0.40%	2. cv.	ರಾಜ್ಯ ರಾಜ್ಯ
¥. %					
201	Length to flange		0.65%	3.2	Gage
707	Concentricity of body diameter with		V	0	0 6 6 7
203	Diameter of thread undercut		0.00	3.5	Gage
204	Evidence of poor workmanship		9	3.5	Visual
		•			
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NOTES: *Sam	NOTES: *Sampling and rejection shall be in accordance with MIL-C-554	with M	II-C-554		

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PARAGRAPH	TITLE				IS.
4.4.2.6	Plug Anchor		SHEET	1 0 1	NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	· 9252412 PARAGRAPH REFERENCE
Critical	None defined				
<u>Major</u> 101 102 103	Largest outside diameter Flange thickness Second largest outside diameter		0.40% 0.40% 0.40%	 	даве Саве Саве
Minor 201 202 203 204 205	Total length Holes missing Evidence of poor workmanship Width of slot incorrect Depth of slot incorrect		\$\$\$\$\$ 0000 0000 00000 00000	wwww wwwww wwww	Gage Visual Visual Gage
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QUALITY CONFORMANCE INSPECTION

_		CLASSIFICATION OF	DEFECTS	& TESTS		MIL-C-63092 (PA)
	PARAGRAPH	TITLE				DRAWING NUMBER
	4.4.2.7	Illuminant Loading Assembly		SHEET	1 of 1	9252412 NEXT HIGHER ASSEMBLY
	CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AGL OR 100%	REQUIREMENT PARAGRAPH	9252411 PARAGRAPH REFERENCE
lan.	Critical	None defined				
	Major 101 102 103 104	Length from shoulder to end Diameter, max. Anchor plug insecure Assembly damaged to extent that function may be impaired Candle power		0.400%		Gage Gage Manual-Visual Visual 4.4.3.2, 4.4.3.3 and
L 8	Minor 201	Evidence of poor workmanship		0.65%	3.5	
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PARAGRAPH	TITLE	-			DRAWING NUMBER
4.4.2.8	Parachute Assembly		SHEET	1 of 1	9243906 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9232411 PARAGRAPH REFERENCE /INSPECTION METHOD
Critical	None defined				
Major 101 102 103	Tears or holes in parachute Shroud lines not attached to parachute Shroud lines tangled Coupling not secure to shroud lines		%07.0 %07.0		Visual Visual Visual
,				•	-
NOTES:					

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QUALITY CONFORMANCE INSPECTION CLASSIFICATION OF DEFECTS & TESTS

	CLASSIFICATION OF DEFECTS & TEST	EFECTS	& TESTS		MIL-C-63092 (PA)
PARAGRAPH	11.1.5				DRAWING NUMBER
4.4.2.9	Delay Assembly	*	SHEET	1 of 1	9243885 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQi. OR 100%	REQUIREMENT PARAGRAPH	9252411 PARAGRAPH REFERENCE //INSPECTION METHOD
Critical	Nohe defined				
<u>Major</u> 101	Static burn time	32	1.5%	3.2	000 000 000
20					9201390 9200964 9200965 9200966 9200967 9200969 9200970 9200971
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PARAGRAPH	TITLE			-	DRAWING NUMBER
4.4.2.10	Projectile assembly, prior to assembling illuminant assembly		SHEET	1 of 1	9252411 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL. OR 100%	REQUIREMENT PARAGRAPH	9255145 PARAGRAPH REFERENCE /INSPECTION METHOD
Critical	None defined				
<u>Major</u> 101	Coupling of illuminant assembly not secure to chain		%Oħ.*O	3.2	Visual
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QUALITY CONFORMANCE INSPECTION CLASSIFICATION OF DEFECTS & TESTS

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PARAGRAPH	TITLE				DRAWING NUMBER
4.4.2.11	Projectile assembly, prior to assembling o	ogive	SHEET	1 of 1	9252411 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9255145 PARAGRAPH REFERENCE /INSPECTION METHOD
Critical	None defined			:	
<u>Major</u> 101 102	Parachute missing O-ring missing Spring pin missing		0.40%		Visual Visual Visual
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NOTES:					

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PARAGRAPH	TITLE				DRAWING NUMBER
4.4.2.12	Projectile Assembly		SHEET]	1 or 1	9252411 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9255145 PARAGRAPH REFERENCE /INSPECTION METHOD
Critical	None defined				
Major 101	Gap present between delay assembly and			0	Vfcnol
102	Color incorrect		00 40%	i o	Visual
Minor 201	Evidence of poor workmanship		0.65%	3.5	Visuaj
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QUALITY CONFORMANCE INSPECTION CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH	TITLE				DRAWING NUMBER
4,4,2,13	Cartridge		SHEET	l of l	9255145 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE
Critical 1	Chamber gage failure		100%	3.2	; 9202770 883786
0 M	Incorrect ogive Marking incorrect		100%	8 8 7 7	rozlogo Visual Visual
Major 101 102 103	Marking unidentifiable Pull test Transportation-vibration	50	0.40 2.508		Visual 4.5.6 4.4.3.5, 4.4.3.8 and
104	Air pressure			3.2	3.4, 4.4.3.6
105	Functioning			3.4	3.7, 4.4.3 4.5.9
Minor 201	Total length		0.65%	3.2	Gage
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3.2 3.2 3.2 3.2 3.2	TEST NO. OF OR DAMPLE NOOS, PREQUIREMENT PARAGRAPH REFERENCE TION O.40% 3.2 Visual O.40% 3.2 Visual O.65% 3.2 Visual O.66% 3	Į.	CLASSIFICATION OF D	DEFECTS	& TESTS	i c	MIL-C-63092 (PA) DRAWING NUMBER 9209204
TEST NO. OF AND. PRRAGRAPH PARAGRAPH REFERENCE OF TABLE O	TEST SAMPLE TOOK PARAGEAFH PARAGEAFH TOOK O. 40% 3.2 Visual O. 40% 3.2 Visual O. 65%				9966	5	NEXT HIGHER ASSEMBLY
o.40% 3.2 Visual 0.40% 3.2 Visual 0.40% 3.2 Visual 0.65% 3.2 Visual 0.65% 3.2 Visual 0.65% 3.2 Visual	0.40% 3.2 Visual 0.40% 3.2 Visual 0.40% 3.2 Visual 0.65% 3.2 Visual 0.65% 3.2 Visual	L	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AOL. OR 100%	REQUIREMENT PARAGRAPH	REFERENCE /INSPECTION
o.40% 3.2 Visual 0.40% 3.2 Visual 0.40% 3.2 Visual 0.65% 3.2 Visual 0.65% 3.2 Visual 0.65% 3.2 Visual	o.40% 3.2 Visual 0.40% 3.2 Visual 0.40% 3.2 Visual 0.40% 3.2 Visual 0.65% 3.2 Visual 0.65% 3.2 Visual		None defined				
0.65% 3.2 Visual 0.65% 3.2 Visual	0.65% 3.2 Visual 0.65% 3.2		itr or		0.40%	00 0 00 0	
			Fillers missing Tube missing		0.65%	8. 8. 8. 8.	Visual Visual
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QUALITY CONFORMANCE INSPECTION CLASSIFICATION OF DEFECTS & TESTS

	CLASSIFICATION OF E	DEFECTS	& TESTS		MIL-C-63092 (PA)
PARAGRAPH	TITLE				DRAWING NUMBER
4.4.2.15	Sealed Metal Box		SHEET]] OF]	9209204 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD
Critical	None defined				
Major 101	Air pressure	*	*	3.2	4.5.10
Minor 201 202	Marking misleading or unidentifiable Contents loose		0.65%	~ ~ ~ ~ ~ ~	Visual Manual
26					
NOTES: *One	(1) packed, sealed box shall be selecte fails, the quantity represented by the	d from east	each twenty shall be re	(20) jected	boxes packed. If one (1)

	CLASSIFICATION OF DE	DEFECTS	& TESTS		, MIL-C-63092 · (PA)	Í
PARAGRAPH	TITLE		ı.		DRAWING NUMBER,	e • • ~ *
4.4.2.16	Sealed Wooden Packing Box		SHEET	1 OF 1	9209205. Next, Higher, Assembly	war ing Lakid I
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH, REFERENCE.	- 100 mm - 17 mm
Critical	None defined					<u> </u>
Minor 201 202 203	Marking misleading or unidentifiable Contents loose ICC nomenclature missing		000000000000000000000000000000000000000	୯ ଫୁ ଫୁ ଫୁ ଫୁ ଫୁ	Visual Manual Visual	القو ومواطور مرجاء ج
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QUALITY CONFORMANCE INSPECTION

4.4.3 Testing -

4.4.3.1 Moisture Content (See Table 1), Major -

TABLE I

Material	<u>Drawing</u>
Delay Composition Igniter Composition Ignition Composition Black Powder Illuminant Composition	9243885 9243885 9252412 9252412 9252412

The contractor shall provide adequate controls to insure compliance with the requirements and shall test for verification at least one (1) sample of each material from each eight hour's production of cartridges. Composite samples shall not be used. If the moisture content of a sample exceeds the requirement and loading has not begun, that quantity of material represented by the sample shall be rejected. If assemblies have been loaded with material containing excessive moisture, the remaining material that is represented by the sample together with all cartridges loaded with the non-forming material shall be rejected.

- 4.4.3.2 Candle Power of Illuminant Assembly Beginning with the first lot produced and continuing until three (3) acceptable lots (lots not accepted by disposition) have been accepted, eighty (80) assemblies shall be selected from each lot for this test. If three (3) or more assemblies fail to comply with the requirement specified on the applicable drawing, the lot shall be rejected.
- 4.4.3.3 Candle Power of Illuminant Assembly, Regular Production After three (3) acceptable lots have met the criteria of 4.4.3.2, the Government Inspector shall select thirty-two (32) assemblies from each lot for this test. If two (2) or more assemblies fail to comply with the requirement specified on the applicable drawing, the lot shall be rejected.

At the start of production, or when there has been a lapse of 90 days, or when a major design change occurs as determined by the Government inspector, the criteria of 4.4.3.2 shall apply.

4.4.3.4 Air Pressure - This test shall be conducted 100 percent. Any cartridge which fails to comply with the requirement specified on the applicable drawing shall be classified defective and removed from the lot.

4.4.3.5 Transportation-Vibration - After completion of the completion of the completion of the completion of the complete complete complete complete complete continuing until three (3) acceptable lots (lots not accepted by disposition) have complied with the acceptance criteria specified in TABLE II, two-hundred and sixty-four (264) cartridges shall be selected from each lot, packed in their regular shipping containers and subjected to this test. The cartridges shall be observed and examined visually without disassembly for any evidence of failure to comply with the requirements of TABLE II.

TABLE II

Defect

Cartridge not safe
to transport following test
Cartridge damaged after test

Drawing

Critical

Major

The lot shall be rejected if any defect as classified in TABLE II occurs.

- 4.4.3.6 Air Pressure After completion of the transportation-vibration test, the two-hundred and sixty-four (264) samples from each lot shall be subjected to this test. If nine (9) or more cartridges fail to comply with the requirement specified on the applicable drawing, the lot shall be rejected. Cartridges which fail this test shall be discarded and replaced with units which have been successfully subjected to transportation-vibration test prior to subsequent testing.
- 4.4.3.7 Functioning After completion of the air pressure test and beginning with the first lot produced and continuing until three (3) acceptable lots (lots not accepted by disposition) have complied with the criteria of TABLE III, the two-hundred and sixty-four (264) samples from each lot shall be packed and shipped to a Government proving ground and tested as follows:
- 4.4.3.7.1 Hot Forty-four (44) samples shall be subjected to this test.
- 4.4.3.7.2 Ambient One-hundred and seventy-six (176) samples shall be subjected to this test.
- 4.4.3.7.3 Cold Forty-four (44) samples shall be subjected to this test.

4.4.3.7.4 Rejection - The lot shall be rejected if:

- a. Any critical defects occur in any phase (see Table III).
- b. Average altitude of the total sample fails the applicable requirement (see Table III).
- c. A total of six (6) or more in the hot phase fail any of the following:
 - (1) Parachute failure (see 3.4.3)
 - (2) Item fails to function (see Table III).

Burning time should be recorded for informational purposes. (Average).

- d. A total of fifteen (15) or more in the ambient phase fail any of the following:
 - (1) Burning time incorrect (see 3.4.2). (Average)
 - (2) Parachute failure (see 3.4.3).
 - (3) Item fails to function (see Table III).
- e. A total of six (6) or more in the cold phase fail any of the following:
 - (1) Parachute failure (see 3.4.3).
 - (2) Item fails to function (see Table III).

Burning time should be recorded for informational purposes. (Average)

f. Two (2) or more of the total samples have an altitude less than 350 ft (see Table III).

TABLE III

Defect	Classification
Incorrect color	Critical
Burst or ejects	Critical
Illuminant within 50 feet	
of the launcher	
Any projectile assembly	Critical
sticks in the gun bore	
Burning time incorrect (see 3.4.2)	Major
The first emission of light shall	Major
be at an average altitude of 600 ± 100 ft	
Parachute failure (see 3.4.3)	Major
Altitude less than 350 ft	Major
Item fails to function	Major

- 4.4.3.8 Transportation-Vibration, Regular Production = After a three (3) acceptable lots have complied with 4.4.3.5 and 4.4.3.7, one-hundred and thirty-two (132) of the samples subjected to the 100% air pressure test shall be selected from each lot, packed in their regular shipping containers and subjected to this test. lot shall be rejected if any defect as classified in TABLE II occurs.
- 4.4.3.9 Air Pressure, Regular Production After completion of the transportation-vibration test, the one-hundred and thirtytwo (132) samples shall be removed from their shipping containers and subjected to this test. If eight (8) or more samples fail to comply with the requirement specified on the applicable drawing, the lot shall be rejected. Cartridges which fail this test shall be discarded and replaced with units which have been successfully subjected to transportation-vibration test prior to subsequent testing.
- 4.4.3.10 Functioning, Regular Production After three (3) acceptable lots have complied with 4.4.3.7, the one-hundred and thirty-two (132) samples subjected to the air pressure test shall be packed and shipped to a Government proving ground and tested as follows:
- 4.4.3.10.1 Hot Twenty-six (26) samples shall be subjected to this test.
- Ambient Eighty (80) samples shall be subjected 4.4.3.10.2 to this test.
- 4.4.3.10.3 Cold Twenty-six (26) samples shall be subjected to this test.
 - 4.4.3.10.4 Rejection The lot shall be rejected if:
 - a. Any critical defect occurs in any phase (see Table III).
- b. Average altitude of the total sample fails the applicable requirement (see Table III).
- c. A total of four (4) or more in the hot phase fail any of the following:
 - (1) Parachute failure (see 3.4.3).
 - (2) Item fails to function (see Table III).

Burning time should be recorded for informational purposes.

d. A total of eight (8) or more in the ambient phase fail any of the following:

(1) Burning time incorrect (see 3.4.2). (Average)

(2) Parachute failure (see 3.4.3).

- (3) Item fails to function (see Table III).
- A total of four (4) or more in the cold phase fail any of the following:

Parachute failure (see 3.4.3). (1)

(2) Item fails to function (see Table III).

Burning time should be recorded for informational purposes. (Average).

f. Two (2) or more of the total samples have an altitude less than 350 ft (see Table III).

If any lot fails, the consecutive lots thereafter shall revert to the critieria of 4.4.3.5.

- 4.4.3.11 Suitability Test Plan (Information Test Only) -Beginning with the first lot produced by each producer and continuing until that producer has submitted three (3) acceptable lots (lots not accepted by disposition) that are accepted in accordance with 4.4.3.7.1, 4.4.3.7.2 and 4.4.3.7.3, and extra sample of eightyeight (88) rounds shall be selected from each lot and preconditioned and tested as follows:
- The eighty-eight (88) rounds shall be packaged in their regular shipping containers and subjected to transportation vibration environmental in accordance with MIL-STD-331, Test No. 104.
- b. After transportation vibration, the rounds shall be unpacked and subjected to the JAN temperature and humidity cycle (14 days) specified in MIL-STD-331, Test No. 105.
- c. After temperature and humidity cycle, the rounds shall be temperature conditioned and fired as follows:

 - 30 rounds + 165 degrees F. + 5 degrees F. 28 rounds ambient (between + 40 and + 110 degrees F.)
 - 30 rounds 65 degrees F. + 5 degrees F.
- Fire the rounds in accordance with paragraph 4.5.9 and with TECOM Material Test Procedure, TECP 700-700 Volume 4. results, failure analysis reports and other information as requested shall be forwarded to Picatinny Arsenal, ATTN: SARPA-QA-A-S.

4.4.4 <u>Inspection Equipment</u> - The inspection equipment redutred to perform the examinations and tests prescribed herein is described in the Paragraph Reference/Inspection Method column in the tables starting with Paragraph 4.4.2.1. The contractor shall submit for approval inspection equipment designs in accordance with the terms of the contract. See Section 6 of MIL-A-48078 and 6.3 herein.

4.5 Test Methods and Procedures -

4.5.1 Dimensional Control of Molded or Plastic Parts - In place of the normal sampling and inspections associated with the Classification of Defects, and after a curing time (3) parts (as molded) from each cavity shall be fully inspection dimensionally to qualify a new or reworked cavity for use in production. The molded parts shall carry the individual cavity identification. As a control of each cavity during production, theabove quantity of parts from each cavity shall be inspected for at least the defects listed in paragraphs 4.4.2.1 and 4.4.2.5 after continuous production of each 5,000 parts or at the end of each week, whichever occurs first. Of the three (3) samples, one (1) sample shall be the last part produced. If any defective parts are found during qualification of the cavity, the cavity producing the defective part will not be used in production. If any defective parts are found when inspection is performed for the control of the cayity, the cavity producing the defective part shall be removed from production. Further, that portion of production since the last control check shall be returned to the contractor for inspection for each . separate type of defect according to MIL-STD-105, using an AQL of 0.40 percent for each major defect and an AQL of 0.65 percent for each minor defect. All cavities removed from production because : of some fault may, after reworking, be returned to production providing they pass the qualification test above. The contractor. may request a change of inspection frequency providing he presents objective evidence to the Contracting Officer to substantiate, the... request. Contractor designs of gages and test equipment required to perform the inspections listed herein shall be forwarded to Commander, Picatinny Arsenal, Dover, New Jersey 07801, Attn: SARFA-QA-T, for approval prior to manufacture of equipment. noted sub-paragraphs identify those items and minimum inspections subject to the requirements of this paragraph.

NOTE 1: In establishing a cure time, dimensionally ccheck ten (10) parts from each cavity at periodic intervals (e.g. every 30, 60, etc. mins) until dimensional stability is attained. The curing time will be from the time the part comes out of the mold until

dimensional stability is attained. The inspection data in determining the curing time shall be sent to Picatinny Arsenal, Dover New Jersey 07801, Attn: SARPA-QA-A-S. If there is a change in material, or in the cycle time, or if a cavity is reworked, or a new cavity is used, a new curing time shall be established and approved.

4.5.2 Moisture Content -

- 4.5.2.1 Delay Composition The moisture content of the delay composition at the time and place of loading shall be determined in accordance with Method 102.1 of MIL-STD-1234.
- 4.5.2.2 <u>Black Powder</u> The moisture content of the black powder at the time and place of loading shall be determined in accordance with 4.4.3 of MIL-P-223.
- 4.5.2.3 Ignition Composition The moisture content of the ignition composition at the time and place of loading shall be determined in accordance with Method 101.4 of MIL-STD-1234 using methyl alcohol as an extraction solvent.
- 4.5.2.4 Illuminant Composition The Karl Fischer method as stated in Standard MIL-STD-1234, Method 101.2 up to paragraph 5.3 shall be used. A fifty-gram sample plus or minus 0.1 gram shall be added to a 500 milliliter (ml) volumetric flash containing approximately 300 to 400 ml. methanol and 25 grams of dry sodium nitrate. The flask shall be stoppered and the contents swirled cautiously for several minutes until the material is thoroughly dispersed. The sample shall be allowed to remain in contact with the methanol for approximately two hours. Then the 500 ml. volumetric flash'shall be filled up to the 500 ml. mark with methanol and swirled again. A blank without the sample shall be put through the same procedure. After the sample has settled, a 50 ml. aliquot of the clear supernatant liquid shall be withdrawn and immediately transferred to the standard titration vessel containing approximately 100 ml. of methanol which has just been titrated to the preliminary end point as described in Standard MIL-STD-1234, Method 101.2, paragraph 5.1. The final end point shall be reached in 3.5 minutes in the manner described in Standard MIL-STD-1234, Method 101.2, paragraph 5.4. A 50 ml. aliquot of the blank shall be titrated in the same manner. The water content shall be calculated as follows:

% Water = $\frac{100F \left[(VR-S) - (V^*R-S) \right]}{W}$

Where:

- ${\tt F} = {\tt grams}$ of water per ml. of standard water in methanol solution
 - V = ml of Karl Fischer reagent added to the sample
 - V' = ml of Karl Fischer reagent added to the blank
- R = ml of standard water in methanol solution per ml. of Karl Fischer reagent
- S ml of standard water in methanol solution for titration of sample
- $S^{\bullet} = ml$ of standard water in methanol solution with back m = mtitration of blank
 - W = weight of sample in grams
- 4.5.2.5 Igniter Composition The moisture content of the igniter composition at the time and place of loading shall be determined in accordance with 4.6.4 of MIL-P-22264.
- 4.5.3 Salt Spray This test shall be conducted in accordance with ASTM B $\frac{117-73}{11}$.
- 4.5.4 Candle Power of Illuminant Assembly This test shall be conducted in accordance with equipment drawings 920136, 9201268, 9201390, 9200965, 9200966, 9200967, 9200968, 9200969, 9200970, 9200971, 9200972, 9200973, 9200974, 9201392, and 9247071.
- 4.5.5 Static Burn Time of Delay Assembly This test shall be conducted in accordance with the equipment specified in 4.4.2.9.
- 4.5.6 <u>Pull Test of Cartridge</u> The cartridge shall be placed in an approved fixture and the axial force specified on the applicable drawing shall be applied. Cartridge shall be pulled until total separation occurs and data shall be recorded. This test is a destructive test. Parts so tested shall not be returned to the lot.
- 4.5.7 Transportation Vibration The cartridges shall be packaged and packed in accordance with dwgs. 9209204 and 9209205 and tested in accordance with Test No. 104 of MIL-STD-331, except that each box shall be vibrated at the specified amplitudes for four (4) hours in each of three (3) different positions (i.e., box positioned so that the cartridges are vertical with case end down, box positioned so that the cartridges are horizontal, and box positioned so that the cartridges are vertical with case end up. After the test, the box packing and the cartridges shall be examined to determine compliance with the requirements. Cartridges shall be used for subsequent tests.

- 4.5.8 Air Pressure The cartridge shall be placed in an approved fixture and a measured quantity of air shall be applied to produce the required air pressure. Cartridges shall be used for subsequent testing.
- 4.5.9 Functioning The following tests shall be performed at a Government-owned proving ground:
- 4.5.9.1 Hot Temperature (160 degrees F. plus or minus 5 degrees F.) The cartridges shall be packed in their regular shipping containers and conditioned for a minimum of 16 hours at a temperature of 160 degrees F. plus or minus 5 degrees F. The cartridge shall be taken from the conditioning chamber, removed from the packing container, and fired from an approved launcher placed on an approved mount at 90 degrees quadrant within approximately 2 minutes. Observation shall be made for proper functioning and the requirements of 3.4.5.
- 4.5.9.2 Ambient Temperature (70 degrees F. plus or minus 5 degrees F.) The cartridges shall be pakeed in their regular shipping containers and conditioned for a minimum of 16 hours at a temperature of 70 degrees F. plus or minus 5 degrees F. The cartridge shall be taken from the conditioning chamber, removed from the packing container, and fired from an approved launcher placed on an approved mount at 90 degrees quadrant within approximately 2 minutes. Observation shall be made for proper functioning and the requirements of 3.4.6.
- 4.5.9.3 Cold Temperature (-65 degrees F. plus or minus 5 degrees F.) The cartridges shall be packed in their regular shipping containers and conditioned for a minimum of 16 hours at a temperature of -65 degrees F. plus or minus 5 degrees F. The cartridge shall be taken from the conditioning chamber, removed from the packing container, and fired from an approved launcher placed on an approved mount at 90 degrees quadrant within approximately 2 minutes. Observation shall be made for proper functioning and the requirements of 3.4.7.
- 4.5.10 Air Pressure of Packed Sealed Metal Box The sealed metal box shall be placed in an approved fixture and a measured quantity of air shall be applied to produce the required air pressure. Observation shall be made for leakage. This test is a non-destructive test. Boxes so tested may be returned to the lot.

5. PREPARATION FOR DELIVERY

5.1 Preservation_and_Packaging -

- 5.1.1 Level A The cartridges shall be preserved and packaged in accordance with dwg. 9209204.
- 5.1.2 Level C The metal parts shall be preserved and packaged in accordance with MIL-STD-1169.

5.2 Packing -

- 5.2.1 Level A The cartridges, preserved and packaged as specified in 5.1.1, shall be packed in accordance with dwg. 9209205.
- 5.2.2 Level C The metal parts, preserved and packaged as specified in 5.1.1, shall be packed for shipment in accordance with MIL-STD-1169.
- 5.3 Marking Marking shall be in accordance with Dwgs. 9209204; 9209205, MIL-STD-1169 and Code of Federal Regulations, Title 49, Parts 100-199.
- 5.4 Shipping When shipments from more than one lot are shipped as a carload, each lot shall be kept separate and the division between lots clearly indicated to prevent mixing of the lots in transit.

6. NOTES

- 6.1 <u>Intended Use</u> This specification covers the metal parts and loading, assembling and packing for Cartridge, 40MM, Red Star Parachute, M662.
 - 6.2 Ordering Data See MIL-A-48078.
- 6.3 Submission of Inspection Equipment Designs for Approval See MIL-A-48078. Submit equipment designs as required to Commander, Attn: SARPA-QA-T, Picatinny Arsenal, Dover, NJ 07801.
- 6.4 Submission of Results of Contractor-conducted Examinations and Tests Data shall be submitted in accordance with data item DI-R-1721 on the DD Form 1423 for the contract.

- 6.5 Submission of Test Data In addition to the normal distribution of records, when the cartridge is procured by the US Army Armament Command, one (1) copy of all ballistic data and ammunition data cards shall be forwarded to: Commander, Picatinny Arsenal, Attn: SARPA-QA-A-S.
- 6.6 The cartridges will be considered safe to transport providing no evidence exists of loose powder or composition in the box.
- 6.7 The cartridges will be considered free of damage that will affect the intended function provided the top seal has not been broken by movement or displacement of the top, or the case side has not been distorted sufficiently to prevent ejection of the illuminant assembly.
- 6.8 Proving Ground Test Initial production testing shall be conducted in accordance with US Army Test and Evaluation Command Initial Production Test Plan No. CART-40GL-VAR.
- 6.9 Metal Defective Nick, crack, dent or sharp edge which might interfere with the proper assembly or end item performance of the item.

6.10 Proving Ground Test Summary:

Project Number: 1310-A094

	** *		
TEST	-	SAMPLE SIZE	REQUIREMENTS
Func	tioning		
(1)	First Article a. Hot b. Ambient c. Cold	80 280 80	See 3.4.5 & 4.3.3.1 See 3.4.6 & 4.3.3.1 See 3.4.7 & 4.3.3.1
(2)	First 3 lots a. Hot b. Ambient c. Cold	44 176 44	See 3.4.5 & 4.4.3.7 Se3 3.4.6 & 4.4.3.7 See 3.4.7 & 4.4.3.7
(3)	Regular Production a. Hot b. Ambient c. Cold	on 26 80 26	See 3.4.5 & 4.4.3.10 See 3.4.6 & 4.4.3.10 See 3.4.7 & 4.4.3.10
Cust	odian: Army-PA		Preparing Activity: Army-PA

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DOCUMENT IDENTIFIER AND TITLE MIL-C-63092		
NAME OF ORGANIZATION AND ADDRESS	CONTRACT NUMBER	
	MATERIAL PROCURE	DUNDER A
HAS ANY PART OF THE DOCUMENT CREATED PROBUSE? A. GIVE PARAGRAPH NUMBER AND WORDING.		
B. RECOMMENDATIONS FOR CORRECTING THE DEFI	ICIENCIES	
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2. COMMENTS ON ANY DOCUMENT REQUIREMENT CONS	IDERED TOO RIGID	
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REPLACES EDITION OF 1 JAN 66 WHICH MAY BE USED