

QUALITY ASSURANCE PROVISIONS (QAP)
(DARCOM-R 702-10)

DRAFT

1. COMMAND AGENCY:

U.S. ARMY EDGEWOOD CHEMICAL BIOLOGICAL CENTER

2. THESE QAP'S FORM PART OF DRAWING/SPECIFICATION 5-1-3339 AS SPECIFIED IN THE CONTRACT. INSPECTION SHALL BE CONDUCTED AS SPECIFIED HEREIN AND IN ACCORDANCE WITH REFERENCED DOCUMENTS.

3. **WARNING** - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751 *et seq.*) or the Export Administration Act of 1979, as amended (Title 50, U.S.C., App 2401 *et seq.*). Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with the provisions of DOD Directive 5230.25.

DISTRIBUTION STATEMENT X. Distribution authorized to U.S. Government agencies and private individuals or enterprises eligible to obtain export-controlled technical data in accordance with DOD Directive 5230.25, determination made . Controlling DOD office is U.S. Army Edgewood Chemical Biological Center, ATTN: AMSRD-ECB-ENP-IP, Aberdeen Proving Ground, MD 21010-5424.

PART I -- APPLICABLE DOCUMENTS

DRAWINGS

- 5-1-1543 - Microphone
- 5-1-3340 - Clip, Adapter

SPECIFICATIONS

MIL-PRF-26542/8 - Microphone and Microphone Assembly, Dynamic, M116()/G and M26542/8-01

OTHER DOCUMENTS

EA-P-1486 - Plastic Components For Chemical-Biological Protective Mask, M42A1

PART II -- QUALITY PROVISIONS

1. First article inspection.

a. Submission. The first article sample shall consist of 10 microphones (Drawing 5-1-3339). The first article sample shall be submitted for inspection and approval in accordance with the terms of the

REVISIONS

4. RELEASE NUMBER	Rev. A Y73-047	Rev. B																	
5. DATE	20 Mar 96	DRAFT																	
4. RELEASE NUMBER																			
5. DATE																			
REVISION STATUS OF SHEETS	6. REVISION	B	B	B	B														
	7. SHEET	1	2	3	4														
	6. REVISION																		
	7. SHEET																		

8. QAP FOR: **DETACHABLE MICROPHONE**

9. SUBMITTED BY: Name AMSRD-ECB-ENA-S		10. QAP NO.: 5-1-3339	
11. DATE: 27 Apr 95	12. APPROVED:	13. RELEASE NO.: Z55-023	14. PAGE NO.: 1
		15. NO. OF PAGES: 4	

QUALITY ASSURANCE PROVISIONS (QAP)

(DARCOM-R 702-10)

contract. As determined by the Government, the sample items may be subjected to any or all of the examinations and tests specified in this QAP and be inspected for compliance with any or all of the requirements of the applicable drawings and specified SPI.

b. Acceptance criteria. If any first article 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. The contractor shall obtain written approval from the contracting activity prior to proceeding with regular production.

2. Conformance inspection.

a. Lotting. A lot shall consist of the items produced by one manufacturer, at one plant, from the same materials, under the same manufacturing conditions, and at essentially the same time.

b. Sampling. Samples shall be selected at random. Sampling shall be conducted in accordance with table I using the inspection levels specified in Part III of this QAP. If required, special sampling, inspection, and acceptance criteria are contained in Part III of this QAP.

c. Inspection characteristics. Critical characteristics are characteristics whose nonconformance to specified requirements is likely to result in hazardous or unsafe conditions for individuals who use or maintain the product. Characteristics whose nonconformance to specified requirements is likely to prevent performance of the tactical function of a major end item are also critical characteristics. Major characteristics are characteristics whose nonconformance to specified requirements is likely to result in failure or to reduce materially the usability of the item for its intended purpose. Minor characteristics are characteristics whose nonconformance to specified requirements is not likely to reduce materially the operation or usability of the item for its intended purpose.

d. Inspection. Inspection shall consist of examination and test of all the characteristics contained in Part III and Part IV of this QAP. Every item in the lot shall be inspected for critical characteristics. The lot represented shall be rejected when nonconformance to a critical characteristic is found.

3. Inspection equipment coding.

- AD – Army designed special acceptance inspection equipment
- CD – Contractor designed special acceptance inspection equipment
- CE – Commercial inspection equipment
- VI – Visual inspection

16.	REVISION SYMBOL AND DATE	Rev. B					10. QAP NO.: 5-1-3339
							14. PAGE NO.: 2

QUALITY ASSURANCE PROVISIONS (QAP)
(DARCOM-R 702-10)

TABLE I. Sampling

Lot size	Inspection levels and sample sizes										
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI
2 to 8	*	*	*	*	*	*	*	*	5	3	2
9 to 15	*	*	*	*	*	*	13	8	5	3	2
16 to 25	*	*	*	*	*	20	13	8	5	3	3
26 to 50	*	*	*	*	32	20	13	8	5	5	5
51 to 90	*	*	*	50	32	20	13	8	7	6	5
91 to 150	*	*	125	50	32	20	13	12	11	7	6
151 to 280	*	*	125	50	32	20	20	19	13	10	7
281 to 500	*	315	125	50	48	47	29	21	16	11	9
501 to 1200	*	315	125	75	73	47	34	27	19	15	11
1201 to 3200	1250	315	125	116	73	53	42	35	23	18	13
3201 to 10000	1250	315	192	116	86	68	50	38	29	22	15
10001 to 35000	1250	315	294	135	108	77	60	46	35	29	15
35001 to 150000	1250	490	294	170	123	96	74	56	40	29	15
150001 to 500000	1250	715	345	200	156	119	90	64	40	29	15
500001 and over	1250	715	435	244	189	143	102	64	40	29	15

*Indicates one hundred percent inspection. If sample size exceeds lot size, perform one hundred percent inspection.
Accept the lot represented on zero nonconforming characteristics and reject the lot represented on one or more nonconforming characteristics for all inspection levels.

PART III -- INSPECTION REQUIREMENTS

CLASSIFICATION OF CHARACTERISTICS

(a) Detachable microphone (Drawing 5-1-3339)

<u>Category</u>	<u>Characteristic</u>	<u>Sampling and acceptance criteria</u>	<u>Inspection method</u>
<u>Critical</u>	None defined		
<u>Major</u>			
101	Resistance	Table I, level VII	CE
102	Functioning	Table I, level VII	Table V, 501
103	Specified components correctly assembled	Table I, level VII	VI
104	Workmanship (no contamination or damage)	Table I, level VII	VI

16. REVISION SYMBOL AND DATE	Rev. B					10. QAP NO.: 5-1-3339
						14. PAGE NO.: 3

QUALITY ASSURANCE PROVISIONS (QAP)

(DARCOM-R 702-10)

Minor

201	Cable length	Table I, level IX	CE
-----	--------------	-------------------	----

(b) Clip, adapter (Drawing 5-1-3340)

Critical None defined

Major

101	Diameter (2.055)	Table I, level VII	CE
102	Gap (0.20)	Table I, level VII	CE
103	Workmanship (no contamination or damage)	Table I, level VII	VI

PART IV -- CERTIFICATION REQUIREMENTS

Certification shall be required for each characteristic specified below and shall include actual examination and test results when required herein. Results of examinations and tests shall be on file at the contractor's facility and shall be available to the Government for review.

<u>Number</u>	<u>Characteristic</u>	<u>To comply with</u>
401	Microphone	Drawing 5-1-1543 and MIL-PRF-26542/8
402	Material (Drawing 5-1-3340)	EA-P-1486, black

PART V -- TEST METHODS AND PROCEDURES

501 Functioning. The microphone circuit shall be terminated with a 150 ohm resistor. A voltmeter with a range of 0 to 1 millivolt (mV) (0.1 mV major division and 0.01 mV minor division) and accuracy of ± 0.005 mV shall be connected across the resistor. Position a sound source, capable of generating the required sound pressure at the required frequency, coaxially with and 1/4-inch from the microphone. The sound source shall be adjusted to the required sound pressure at the required frequency and the output voltage across the resistor recorded.

PART VI -- NOTES

1. Changes from previous issues. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

16. REVISION SYMBOL AND DATE	Rev. B						10. QAP NO.: 5-1-3339
							14. PAGE NO.: 4