

INCH-POUND

MIL-H-11134F (CR)
18 September 1990

Superseding
MIL-H-11134E (EL)
3 August 1977

MILITARY SPECIFICATION

HANDSET H-33()/PT

This specification is approved for use by the Communications-Electronics Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers one type of handset having a carbon microphone; designated as Handset H-33()/PT (see 6.1 and 6.4).

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards and handbooks. The following specifications, standards and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ED-TD, Fort Monmouth, New Jersey 07703-5000 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 5965

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SPECIFICATIONS

MILITARY

- | | |
|-------------|--|
| MIL-P-11268 | - Parts, Materials, and Processes Used in Electronic Equipment Mechanical and General Purpose. |
| MIL-M-13231 | - Marking of Electronic Items. |
| MIL-F-14072 | - Finishes for Ground Electronic Equipment. |

STANDARDS

MILITARY

- | | |
|-------------|---|
| MIL-STD-202 | - Test Methods for Electronic and Electrical Component Parts. |
| MIL-STD-252 | - Wired Equipment, Classification of Visual and Mechanical Defects for. |
| MIL-STD-454 | - Standard General Requirements for Electronic Equipment |
| MIL-STD-810 | - Environmental Test Methods and Engineering Guidelines. |

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from: Standardization Documents Order Desk, Bldg 4D, 700 Robins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DRAWINGS

COMMUNICATIONS-ELECTRONICS COMMAND

- | | |
|--------------|---|
| SC-GL-57501 | Gage Set for U-77/U, U-126/U, U-127/U, U-161/U, U-163/U |
| SC-C-61800 | Microphone Element M-35/U |
| SC-D-76326 | Handle Assy |
| SC-DL-105364 | Handset H-33()/PT |
| SC-C-105379 | Receiver Element Assy |
| SC-B-105380 | Insert |

US Navy

- | | |
|----------|---|
| SK-N-864 | Simulated Gunblast Production Equipment |
|----------|---|

(Copies required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Non-Government publications. The following documents form a part of this

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document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

- ANSI S1.10-66 - Calibration of Microphones
- ANSI S1.12-67 - Laboratory Standard Microphones, Specs for
- ANSI S3.7-73 - Coupler Calibration of Earphones

(Application for copies should be addressed to the American National Standards Institute, 1430 Broadway, New York, NY 10018)

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)

- IEEE Std-258 - Test Procedure for Close-Talking Pressure-Type Microphones

(Application for copies should be addressed to the IEEE Order Dept., 445 Hoes Lane, Piscataway, NJ 08854.)

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 First article. When specified (see 6.2(d)), the contractor shall furnish sample units for first article inspection (see 6.3) in accordance with paragraph 4.3.

3.2 Construction. The equipment shall be constructed in accordance with the requirements of this specification and Drawing and Data List SC-DL-105364 (including the requirements for parts, materials and processes thereon) (see 4.4).

3.3 Parts, materials and processes; general. In addition to the requirements to this specification, the requirements of MIL-P-11268, including the selection requirements therein, shall apply (see 4.4).

3.4 Finish. The equipment shall be finished in accordance with MIL-F-14072 and the equipment drawings (see 4.4).

3.5 Marking. Marking shall be in accordance with MIL-M-13231 (see 4.4).

3.6 Performance characteristics.

3.6.1 Insulation resistance. The insulation resistance between connector pins¹

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intended to be insulated from each other and between all pins connected together and external metal shall be 10 megohms minimum.

3.6.2 Operation. The handset shall transmit and receive intelligible voice signals without buzzing, rattling or other spurious sounds. Transmission shall be possible only with the push-to-talk switch depressed.

3.6.3 Microphone (M-35/U).

3.6.3.1 Response.

a. With the plane of the acoustic entrance vertical, a bias current of 85 milliamperes direct (madc) and a sound pressure input of 28 dynes per square centimeter, the power output of the microphone in the range of 300 to 4000 Hertz (Hz) shall fall within the envelope of Figure 1. For any bandwidth indicated below for the various frequency ranges, the change in response from the lowest to the highest frequency in the band shall not exceed the limits shown.

Bandwidth (Hz)	Frequency Range (Hz)	Changes in Response (dB)	
100	300-1000	0	+3
300	1000-2000	-1	+5
300	2000-3000	-2	+1
200	3000-3500	-3	+2.5
500	3500-4000	-5	+3

b. The response of the microphone shall be within 5 db of the response obtained in a., above, when measured with the microphone rotated in a vertical plane +90, -90, +45 and -45 degrees.

c. With the plane of the acoustic entrance vertical, a bias voltage of 1.5 volts direct current (vdc) and a sound pressure input of 28 dynes per square centimeter, the power output of the microphone shall be not less than the values shown below.

Frequency (Hz)	Response (dB above 1 mV)
300	9
500	14
1000	22
2000	28
3000	29

3.6.3.2 Impedance. The output impedance of the microphone shall be 40 ohms +20%.

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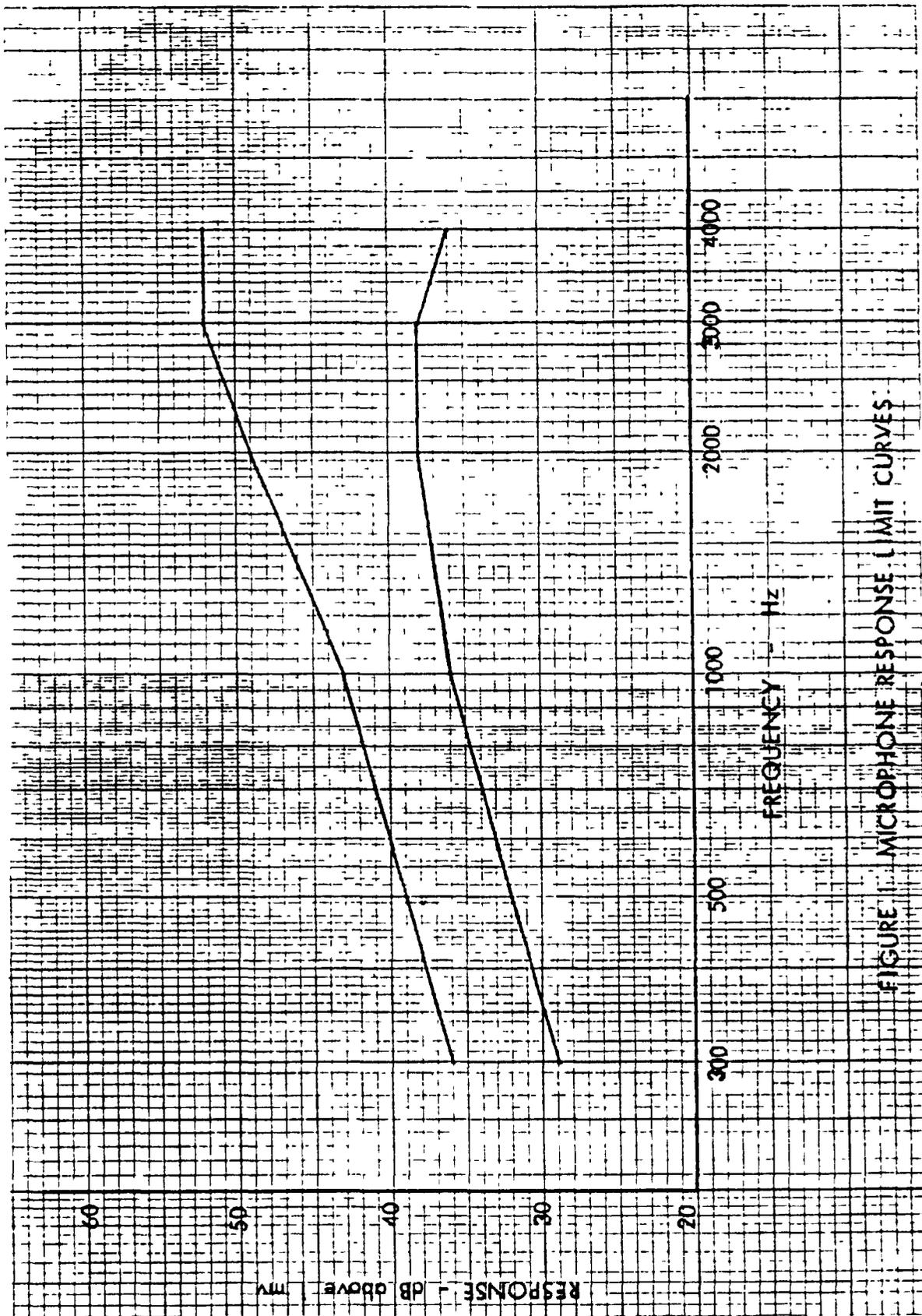


FIGURE 1 MICROPHONE RESPONSE LIMIT CURVES

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3.6.3.3 Unagitated current. With a bias voltage of 6 vdc and a load resistance of 30 ohms, the bias current through the microphone prior to agitation (preconditioning) shall not exceed 125 madc.

3.6.3.4 Carbon noise. Carbon noise shall not exceed 2.25 millivolts (mV).

3.6.3.5 Aging. The frequency response of the microphone following vibration shall be within 2 dB of the response prior to aging. In addition, carbon noise shall not exceed 12.7 mV and the impedance shall not have increased by more than twice the value prior to aging.

3.6.4 Earphone.

3.6.4.1 Response. The acoustic output of the earphone shall be within the limits shown in Figure 2 when 2 milliwatts (mW) (1.1V) at frequencies in the range of 300 to 4000 Hz is applied to the test circuit.

3.6.4.2 Overload. The earphone shall show no more than 3 dB change from its original response curve, after being subjected to the test specified in 4.7.2.4.2.

3.6.4.3 Impedance. The input impedance of the earphone at 1000 Hz shall be 300 ohms plus 50 or minus 30 ohms.

3.6.5 Push-to-talk switch. See 4.7.2.5.

3.6.5.1 Make-break sequence. The microphone contacts shall make before the control contacts make. The control contacts shall break before the microphone contacts break.

3.6.5.2 Endurance. The switch shall be capable of 500,000 make-break operations when tested in accordance with 4.7.2.5.2.

3.7 Environmental. The equipment shall meet the following environmental conditions.

3.7.1 Temperature.

3.7.1.1 Low. During and after testing as specified in 4.8.1.1, the equipment shall meet the requirements of 3.6.3.1 and 3.6.4.1 with no more than a 2 dB change in response.

3.7.1.2 High. During and after testing as specified in 4.8.1.2, the equipment shall meet the requirements of 3.6.3.1 and 3.6.4.1 with no more than a 2 dB change in response.

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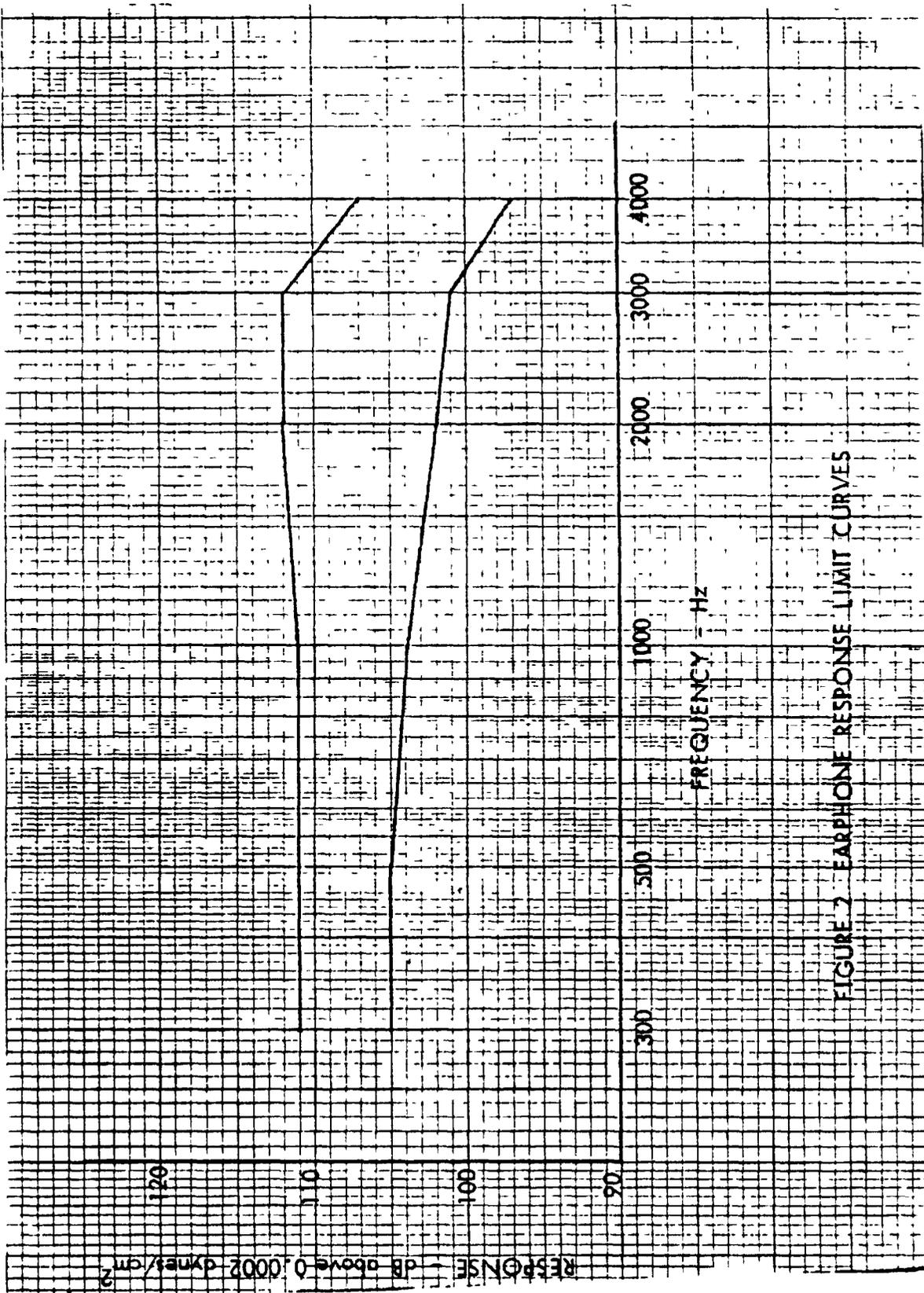


FIGURE 2 - EARPHONE RESPONSE LIMIT CURVES

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3.7.2 Humidity. The equipment shall exhibit no physical damage such as corrosion, rust, blistering, swelling or deterioration of parts and materials, and shall meet the requirements of 3.6.3.1 and 3.6.4.1 during the operating times specified in 4.8.2.

3.7.3 Altitude (Elevation). The equipment shall meet the requirements of 3.6.3.1 and 3.6.4.1 with no more than a 5 dB change in frequency response at altitudes up to to 10,000 feet above sea level after storage at 50,000 feet above sea level.

3.7.4 Leakage (Immersion). The equipment shall meet the requirements of 3.6.1, 3.6.3.1, and 3.6.4.1 following the test of 4.8.4. There shall be no evidence of water leakage into the handset.

3.7.5 Blast. The equipment shall meet the requirements of 3.6.3.1 and 3.6.4.1 with no more than a 4 dB change in frequency response for the microphone and 1.5 dB for the earphone following thirty (30) rounds of blast at a peak pressure of 9.5 pound-force per square inch (psi).

3.7.6 Vibration. The equipment shall meet the Requirements of 3.6.1 and 3.6.2 following the tests of 4.8.6.

3.8 Interchangeability. Like units, assemblages, subassemblies, and replaceable parts shall conform to Requirement 7 of MIL-STD-454 (see 4.9).

3.9 Workmanship. The equipment shall be manufactured and assembled in accordance with Requirement 9 of MIL-STD-454 (see 4.6).

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.2 Classification of inspections. The inspection requirements specified

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herein are classified as follows:

- a. First article inspection (see 4.3)
- b. Inspections covered by subsidiary documents (see 4.4).
- c. Quality conformance inspection of items before packaging (see 4.5).

4.3 First article. Unless otherwise specified in the contract or purchase order, the First article inspection shall be performed by the contractor.

4.3.1 First article units. The contractor shall furnish nine (9) First Article units of Handset H-33()/PT.

4.3.2 First article inspection. The first article inspection shall consist of the inspections specified in subsidiary documents covering the items listed in 4.4, and the inspections specified for group A, group B, and group C (see Tables I, II, III respectively). The inspections shall be performed in the following order: 4.4, group A and group B for all units; and group C as specified in Table III. After completion of group C environmental tests, conforming units shall be reinspected and shall pass all group A inspection.

4.3.3 Failures. One or more failures shall be cause for refusal to grant first article approval.

4.4 Inspections covered by subsidiary documents. The following shall be inspected under the applicable subsidiary documents as part of the inspection required by this specification, and the inspection requirement specified in the contract or purchase order

<u>Item</u>	<u>Where required</u>
Construction	3.2
Parts, materials and processes; general	3.3
Finish	3.4
Marking	3.5

4.5 Quality conformance inspection of equipment before packaging. The contractor shall perform the inspection specified in 4.4, 4.5.1 through 4.5.4. This does not relieve the contractor of his responsibility for performing any additional inspection which is necessary to control the quality of the product and to assure compliance with all specification requirements.

4.5.1 Group A inspection Units presented for acceptance shall be inspected for conformance with the criteria specified in Table I. Lots shall be formed and subjected to the sampling plan as indicated.

4.5.1.1 Order of inspection with group A Group A inspection shall be performed in an order satisfactory to the Government except that the operational inspection shall be last.

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TABLE I. Group A inspection.

Inspection	Requirement paragraph	Inspection paragraph	Sampling plan table
<u>Visual & Mechanical (Major)</u>	3.9	4.6	IV
<u>Visual & Mechanical (Minor)</u>	3.9	4.6	V
<u>Electrical</u>			
Ins Resistance	3.6.1	4.7.2.1	IV
Operation	3.6.2	4.7.2.2	IV
<u>Microphone</u>			
Response	3.6.3.1	4.7.2.3.1	IV
Impedance	3.6.3.2	4.7.2.3.2	IV
<u>Earphone</u>			
Response	3.6.4.1	4.7.2.4.1	IV
Impedance	3.6.4.3	4.7.2.4.3	IV

4.5.2 Group B inspection. Group B inspection shall be performed on inspection lots that have passed group A inspection and on samples selected from units that have been subjected to and met the group A inspection. This inspection shall conform to Table II.

4.5.2.1 Group B sampling plans. The group B sampling plans shall be as indicated in Table II.

4.5.2.2 Order of inspection within group B. Group B inspection shall be performed in an order satisfactory to the Government.

TABLE II. Group B inspection.

Inspection	Requirement paragraph	Inspection paragraph	Sampling plan table
Make-break sequence	3.6.5.1	4.7.2.5.1	V
Interchangeability	3.8	4.9	VI
Microphone Unagitated circuit	3.6.3.3	4.7.2.3.3	V
Earphone Overload	3.6.4.2	4.7.2.4.2	V

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4.5.3 Group C inspection. Group C inspection shall be performed on units that have passed group A and group B inspection. The inspection shall consist of the inspections specified in Table III.

4.5.3.1 Sampling for group C inspection. For Subgroup I, two samples each of the handset shall be selected at random from each 500 units or fraction thereof produced. Each sample shall be tested to all tests of the Subgroup. For subgroup II, five samples shall be selected at random from each 1000 units or fraction thereof produced. One sample shall be tested against each test. For subgroup III, two samples shall be selected at random from each 2000 units or fraction thereof produced. One sample shall be tested against each test. The first samples of each test subgroup shall be selected from the first production lot.

4.5.3.2 Group C failures. Actions required relative to group C failures shall be as specified in the contract or purchase order.

4.5.4 Reinspection of conforming group C sample units. Unless otherwise specified, sample units which have been subjected to and passed group C inspection may be accepted on contract provided all damage is repaired and the sample units are resubjected to and pass group A and group B inspection.

TABLE III. Group C inspection.

Inspection	Requirement paragraph	Inspection paragraph
Subgroup I Carbon noise Leakage (Immersion)	3.6.3.4 3.7.4	4.7.2.3.4 4.8.4
Subgroup II Temperature Humidity Altitude (Elevation) Vibration Aging	3.7.1 3.7.2 3.7.3 3.7.6 3.6.3.5	4.8.1 4.8.2 4.8.3 4.8.6 4.7.2.3.5
Subgroup III Endurance Blast	3.6.5.2 3.7.5	4.7.2.5.2 4.8.5

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TABLE IV. Sampling plan.

<u>Lot Size</u>	<u>Sample Size</u>
2 to 8	*
9 to 15	13
16 to 25	13
26 to 50	13
51 to 90	13
91 to 150	13
151 to 280	20
281 to 500	29
501 to 1200	34
1201 to 3200	42
3201 to 10,000	50
10,001 to 35,000	60
35,001 to 150,000	74
150,001 to 500,000	90
500,001 and over	102

- NOTES: 1. * Indicates entire lot must be inspected.
 2. Acceptance number in all cases is zero.

TABLE V. Sampling plan.

<u>Lot Size</u>	<u>Sample Size</u>
2 to 8	3
9 to 15	3
16 to 25	3
26 to 50	5
51 to 90	6
91 to 150	7
151 to 280	10
281 to 500	11
501 to 1200	15
1201 to 3200	18
3201 to 10,000	22
10,001 and above	29

- NOTE: 1. Acceptance number in all cases is zero.

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TABLE VI. Sampling plan.

<u>Lot Size</u>	<u>Sample Size</u>
2 to 8	2
9 to 15	2
16 to 25	3
26 to 50	5
51 to 90	5
91 to 150	6
151 to 280	7
281 to 500	9
501 to 1200	11
1201 to 3200	13
3201 and above	15

NOTE: 1. Acceptance number in all cases is zero.

4.6 Visual and mechanical. The equipment shall be examined for compliance with 3.9. Classification of defects shall be in accordance with MIL-STD-252.

4.7 Performance requirements.

4.7.1 Test equipment and procedures. Except as otherwise specified herein, test equipment and procedures shall conform to IEEE Std-258 and ANSI S3.7.

a. The secondary sound pressure reference standard shall be Type L (not M or H) pressure microphone conforming to ANSI S1.12 calibrated in accordance with ANSI S1.10.

b. The distance from the face of the microphone to the plane of the opening of the artificial voice shall be 0.25 inch. The voltage across the voice coil of the artificial voice shall be calibrated to provide a sound pressure level of 28 dynes per square centimeter in the frequency range of 300 to 4000 Hz.

c. In the test circuit of Figure 2 of IEEE STD-258, RL is 40 ohms non-inductive, C is 100 microfarad, Ebb is 24 vdc and the variable resistor is 250 ohms.

d. The sound pressure level of 28 dynes per square centimeter (103 dB) shall be used in place of the 94 dB specified in IEEE Std-258.

e. Microphone and earphone tests of 4.7.2.3 and 4.7.2.4 shall be performed on the elements only. All other tests shall be performed with the elements installed in the handset. Measurements shall be made at the connector U-161 terminals.

f. Continuous trace response data are required for the microphone element.

4.7.2 Methods of inspection.

4.7.2.1 Insulation resistance. The assembly shall be tested in accordance

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with Method 302, test condition B, of MIL-STD-202 to meet the requirements of 3.6.1. There shall be no evidence of arcing or insulation breakdown during the test.

4.7.2.2 Operation. Establish a test circuit by providing a battery bias supply between connector pins E and C, connect pin C to pin B through a 100 mf capacitor, and connect pin D to pin F and pin H to pin A. Speak into the microphone. Sidetone shall be heard in the earphone only when the push-to-talk switch is depressed (see 3.6.2).

4.7.2.3 Microphone.

4.7.2.3.1 Response.

a. Perform the power response test of the microphone in the vertical position with a bias current of 85 mdc and determine compliance with 3.6.3.1a.

b. Perform the power response test of the microphone as in a., above, with the microphone rotated in a vertical plane +90, -90, +45 and -45 degrees and determine compliance with 3.6.3.1.b.

c. Perform the power response test of the microphone as in a., above, with the bias supply of battery and variable resistor replaced with a bias battery of 1.5 vdc and determine compliance with 3.6.3.1.c.

4.7.2.3.2 Impedance. Using the test circuit of 4.7.2.3.1a, 1000 Hz, measure the voltage (dc) across the microphone and the direct current flowing through it and determine that their ratio complies with 3.6.3.2.

4.7.2.3.3 Unagitated current. The microphone under test shall not be preconditioned (agitated) prior to this test. Use the test circuit as in 4.7.2.3.1a, except that the bias voltage and variable resistor combination shall be replaced with a bias battery of 6 vdc and the load resistor reduced to 30 ohms. During a 10 minute period, measure the peak current flowing through the microphone for compliance with 3.6.3.3.

4.7.2.3.4 Carbon noise. Using the test circuit as in 4.7.2.3.1a, except that the bias current shall be adjusted to 170 mdc and the sound pressure level shall be 70 dynes per square centimeter, perform the test in accordance with the IEEE Standard and determine compliance with 3.6.3.4.

4.7.2.3.5 Aging. Perform the measurements of frequency response, impedance and carbon noise, before and after the vibration sweep specified in IEEE Std-258 to determine compliance with 3.6.3.5.

4.7.2.4 Earphone.

4.7.2.4.1 Response. Constant-available-power (2 mW) frequency response measurements shall be made at 3000, 5000, 1000, 2000, 3000 and 4000 Hz. Response measurements shall be made in accordance with ANSI S3.7 in a Type-1 Earphone Coupler except that the coupling weight shall be one kilogram. Determine compliance with 3.6.4.1.

4.7.2.4.2 Overload. Operate the earphone at ten volts, 400 Hz, for a period

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of 10 hours. Repeat the response tests at the 2 milliwatt level for compliance with 3.6.4.2.

4.7.2.4.3 Impedance. Using the procedures described in ANSI S3.7, measure the impedance at 1000 Hz for compliance with 3.6.4.3.

4.7.2.5 Push-to-talk switch.

4.7.2.5.1 Make-break sequence. Connect suitable low current lamp indicating circuits to pins F and H of the connector (control circuit) to pins E and D of the connector (microphone circuit). Slowly operate and release the push-to-talk switch and determine compliance with 3.6.5.1.

4.7.2.5.2 Endurance. Connect a resistive load in series with 24 Vdc between connector pins F and H (control circuit) and adjust the load to one ampere. Operate the switch to full travel and off at a rate of 25 to 60 cycles per minute for a total of 500,000 cycles. At the conclusion of the test, determine compliance with 3.6.5.1, and 3.6.5.2.

4.8 Environmental conditions.

4.8.1 Temperature.

4.8.1.1 Low. The equipment shall be tested in accordance with Method 502.3, Procedure I of MIL-STD-810. The storage temperature shall be -55 oC, maintained for 4 hours, and the operating temperature shall be -40 oC. Prior to, during and following the test, the equipment shall meet the requirements of 3.7.1.1.

4.8.1.2 High. The equipment shall be tested in accordance with Method 501.3, Procedure I of MIL-STD-810. The storage temperature shall be 70 oC, maintained for 2 hours and the operating temperature shall be 65 oC. Prior to, during and following the test, the equipment shall meet the requirements of 3.7.1.2.

4.8.2 Humidity. The equipment shall be tested in accordance with Method 507.3, Procedure I of MIL-STD-810, with measurements made during the last 5 hour period of each cycle. Prior to, during and following the test, the equipment shall meet the requirements of 3.7.2.

4.8.3 Altitude. The equipment shall be tested in accordance with Method 500.3, Procedure I of MIL-STD-810. Prior to, during and following the test, the equipment shall meet the requirements of 3.7.2.

4.8.4 Leakage (immersion). The equipment shall be tested in accordance with Method 512.3, Procedure I of MIL-STD-810 and meet the requirements of 3.7.4 prior to and following the test.

4.8.5 Blast. Mount the handset under test on the carriage of the Simulated Gun Blast Producing Equipment in accordance with SK-N-864 with the front edge of the earphone element in the test plane and with its axis coincident with that of the explosion chamber. Subject the handset to 30 rounds of blast at a peak pressure of 9.5 psi. Determine compliance with 3.7.5.

4.8.6 Vibration. The equipment shall be tested in accordance with Method 201

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of MIL-STD-202. Determine compliance with 3.7.6.

4.9 Inspection for dimensional interchangeability. The dimensions listed below shall be gaged to determine conformance to the physical interchangeability requirements of 3.8. When a dimension is not within specified or design limits, it shall be considered a major defect.

- a. Receiver element dimensions shown on drawing SC-C-105379 and SC-B-105380.
- b. Microphone Element dimensions shown on drawing SC-C-61800.
- c. Decimal dimension on Handle Assy drawing SC-D-76326.
- d. Connector U-161/U shall be inspected using gages per SC-GL-57501.

5. PACKAGING

5.1 Packaging requirements. The packaging requirements for the desired level(s) of protection shall be as specified by the acquisition activity (see 6.2).

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. Handset H-33()/PT utilizes a 300 ohm earphone element, a 40 ohm carbon type microphone, a push-to-talk switch and a six foot (extended) retractile cord terminating in a ten pin audio connector (U-161/U). It is intended for use with radio equipment such as the AN/GRC-106.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of this specification and any amendment thereto.
- b. Type required.
- c. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1).
- d. First article inspection (if required).
- e. Levels of preservation and packaging (see section 5).

6.3 First article. When first article inspection is required, the contracting officer should provide specific guidance to offerors whether the item(s) should be a preproduction sample, a first article sample, a first production item, a sample selected from the first production items, a standard production item from the contractor's current inventory, and the number of items to be tested as specified in 4.3. The contracting officer should also include specific instructions in acquisition documents regarding arrangements for examinations, approval of first article test results, and disposition of

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first articles. Invitations for bids should provide that the Government reserves the right to waive the requirement for samples for first article inspection to those bidders offering a product which has been previously acquired or tested by the Government, and that bidders offering such products, who wish to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract. Bidders should not submit alternate bids unless specifically requested to do so in the solicitation.

6.4 Nomenclature. The parentheses in the nomenclature will be deleted or replaced by a letter identifying the particular design; for example H-33W/PT. The contractor should apply for nomenclature in accordance with the applicable clause in the contract.

6.5 Verification inspection. Verification by the Government will be limited to the amount deemed necessary to determine compliance with the contract and will be limited in severity to the definitive quality assurance provisions established in this specification and the contract. The amount of verification inspection by the Government will be adjusted to make maximum utilization of the contractor's quality control system and the quality history of the product.

6.6 Environmental. Environmental pollution prevention measures are contained in the packaging material. Refer to the procuring activity for recommended disposability methods.

6.7 Subject Term (keyword) Listing.

Push-to-talk
Pressure microphone
Artificial voice
Connector U-161/U
300 ohm earphone
40 ohm carbon type microphone

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

Custodian:

Army - CR

Preparing Activity:

Army - CR

(Project 5965-A205)

