

SPECIFICATION ENGINEERING DIVISION
PRODUCTION AND SPECIFICATIONS ENGINEERING DEPARTMENT
U. S. ARMY ELECTRONICS MATERIEL SUPPORT AGENCY
FORT MONMOUTH, NEW JERSEY

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ADDENDUM NUMBER 2

To Accompany: Specification MIL-M-5794B

For: Microphone Unit M-6A/UR and Microphone,
 Carbon M-51/UR

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1. Page 3, paragraph 3.4.1 Design - Add the following at end of paragraph: "Each microphone unit shall consist of a plastic housing and a separate integral assembly containing the active operating elements. The electro-acoustical performance of this element shall not be adversely affected by stresses or deformation of the plastic housing. This element when completely assembled, shall be mechanically rigid and shall be sealed to prevent entrance of moisture into the carbon chamber of the unit.
 2. Page 5, paragraph 3.5.4 Noise cancellation - Change "17 db" to "13 db".
 3. Page 12, paragraph 4.16.14 Blast test - (Microphone Unit M-51/UR) - Replace with the following:
 "4.6.14 Blast test for Microphone Unit M-51/UR. -
 "4.6.14.1 The microphone unit shall be subjected to 30 rounds of blast at a peak pressure of 9.5 pounds per square inch by using one of the following methods:
 - a. The microphone unit shall be mounted so that the pressure produced by ammunition explosion strikes the face of the microphone unit under test. A transducer capable of operating under a peak pressure of 12 pounds per square inch or more and of a known calibration shall be placed in the same relative position as the microphone unit under test. The voltage produced by this transducer shall be fed into a fast response oscilloscope with an oscilloscope camera available. Photographs of the pressure produced on the transducer by the ammunition explosion shall be recorded at the 1st, 10th, 20th, and 30th round to show instant pressure."
 - b. The microphone unit shall be elevated at least 6 feet above the ground and located at least 12 feet for a 5 inch 25 caliber gun or 14 feet for a 5 inch-38 caliber gun, from the gun muzzle in the plane through the muzzle perpendicular to the gun axis. The front edge of the microphone unit shall be positioned so that its axis will be coincident with that of the gun muzzle.

Addend Nr. 2 to
Spec. MIL-M-5794B

"4.6.14.2 After the above conditioning, the microphone unit shall meet the requirements of 3.5.9."