

INCH POUND

MIL-PRF-55359A(CR)
9 June 1997

SUPERSEDING
MIL-A-55359(EL)
19 March 1973

PERFORMANCE SPECIFICATION

ANTENNA AS-1304()/ARN-30

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

1. SCOPE

1.1 Scope. This document covers one type of Very High Frequency (VHF) Omnidirectional range balanced loop airborne antenna for the reception of Instrument Landing System (ILS), Localizer and Very High Frequency Omni-range (VOR) signals for use with Airborne Navigational equipments within the frequency range of 108 to 122 MHz and designated AS-1304()/ARN-30 (see 6.1 and 6.3).

1.2 Appendices. The appendix listed below forms a part of this specification. Appendix - Temperature Altitude Test.

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, U.S. Army Communications-Electronics Command, ATTN: AMSEL-LC-LEO-E-EP, Fort Monmouth, NJ 07703 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A:

FSC 5826

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

2.2 Government documents.

2.2.1 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 are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-E-5400	-	Electronic Equipment, Aerospace, General Specification for
MIL-M-13231	-	Marking of Electronic Items
MIL-F-14072	-	Finishes for Ground Signal Equipment

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-810	-	Environmental Test Methods
-------------	---	----------------------------

HANDBOOKS

DEPARTMENT OF DEFENSE

MIL-HDBK-454	-	General guidelines for military equipment
--------------	---	---

(Unless otherwise indicated, copies of the above specifications and standards are available from the Standardization Document Order Desk, 700 Robins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2.2 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

DL-SM-A-498900 - Antenna Assembly AS-1304()/ARN-30

(Copies of these drawings are available from Commander, U.S. Army Communications-Electronics Command, ATTN: AMSEL-LC-LEO-E-EP, Fort Monmouth, NJ 07703)

2.3 Non-Government publications. The following document forms a part of this 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.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
AMERICAN SOCIETY for QUALITY CONTROL (ASQC)

ANSI/ASQC Z1.4 - Sampling Procedures and Tables for
Inspection by Attributes (DoD adopted)

2.4 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 samples. The contractor shall furnish three preproduction samples for approval (see 4.2 and 6.2).

3.2 Construction. Design and construction of the antenna shall be the contractor's responsibility. However, the interface and dimensional requirements of DL-SM-A-498900 shall be met.

3.3 Cleaning.

3.3.1 Parts. After fabrication, parts shall be cleaned. Cleaning processes shall have no deleterious effect. Corrosive material shall be removed completely before the parts are mounted on chassis, panels, etc.

3.3.2 Units. After assembly, units shall be cleaned thoroughly and shall be free from particles of solder, flux, and other foreign material. In addition, when necessary, such cleaning shall also be performed before final assembly of the units.