

INCH-POUND

MIL-A-29521(EC)
 AMENDMENT 2
 18 January 1989
 SUPERSEDING
 AMENDMENT 1
 14 November 1988

MILITARY SPECIFICATION
 ANTENNA GROUP, AN/BRA-34(V), AN/BRA-34A(V), AN/BRA-34B(V)

This amendment forms a part of Military Specification MIL-A-29521(EC), dated 25 April 1988, and is approved for use within the Space and Naval Warfare Systems Command, Department of the Navy, and is available for use by all Department and Agencies of the Department of Defense.

PAGE 4

2.1.2, "DRAWINGS", "NAVAL UNDERWATER SYSTEMS CENTER, NEW LONDON LABORATORY (NUSC/NLL)", after "03428001", add:

"03432002 AN/BRA-34 Antenna Radome
 "03744001 AN/BRA-34 EMI Hardened Junction Box".

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* 3.2.1.8, first three lines Delete and substitute

"3.2.1.8 GPS antenna and IFF antenna assembly (Unit 1A61). The GPS antenna and IFF antenna assembly shall perform the functions specified in a and b".

* 3.2.1.8c. Delete.

3.2.1.10. Delete text and substitute:

"The UHF switch deck shall combine UHF, GPS, and IFF received signals, amplify UHF signals, separate UHF and IFF transmitted signals, and provide for relay selection of UHF dipole or UHF helix antenna.".

PAGE 14

3.3.4.2a, line 5 Delete "+0.75" and substitute "+0.75".

PAGES 14 AND 15

* 3.3.6 through 3.3.6.3. Delete.

PAGE 15

3.3.7e, first sentence, line 4 Delete "65" and substitute "30".

*The attached insertable replacement pages listed below are replacements for stipulated pages. When the new pages have been entered in the document, insert the amendment as the cover sheet to the specification.

<u>Replacement page</u>	<u>Page replaced</u>
5	Reprinted without change
6	6
7	7
8	8

AMSC N/A

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PAGE 16

- * 3.3.7.1.5, line 2. Delete "0.1 V" and substitute "0.1 volt (V)".

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- 3.3.12d, line 2. Delete "10" and substitute "1"

PAGE 22

- 3.4.3.5 Delete.

PAGE 23

TABLE III, "Junction box, port" and "Junction box, starboard": Delete entire entries and substitute:

"Junction boxes, port and starboard 4 and 5 3/ 3/ 3/ 11 7 (24)"

TABLE III, footnote 2/: After "reel 28617B": Delete the period and substitute ", and MUSC DWG 03432002."

TABLE III, add as footnote 3/

"3/ Dimensions shall be as specified in MUSC DWG 03744001."

PAGE 24

- * 3.6.6.1a: Delete "1050 psi" and substitute "1050 pounds per square inch (psi)".
- * 3.6.6.2, line 2. Delete "70.3 kg/cm²" and substitute "70.3 kilograms per square centimeter"

PAGE 25

- 3.7, line 3 After "group" insert "inboard units"

PAGE 28

TABLE V, "Design and construction", "Requirement paragraph": Delete "3.4.3.5".

PAGE 31

- * TABLE V Delete the following entries in their entirety:

"Depth transducer performance characteristics
Output voltage
Impedance
Pressure".

PAGE 35

- 4.5.15, line 10. Delete "10" and substitute "1".

PAGE 45

- * APPENDIX A, 30.2.2, line 4: Delete "5.48 m (18 ft)" and substitute. "5.48 meter (m) (18 feet (ft))".

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Preparing activity
NAVY - EC

(Project No. 5985-N589(EC))

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NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70-1988

National Electrical Code

(Application for copies should be addressed to the National Fire Protection Association, 470 Atlantic Avenue, Boston, MA 02210.)

(Nongovernment standards and other publications are normally available from the organizations which prepare or which 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 specification and the references cited herein (except for associated detail specifications, specification sheets, or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 General. The antenna group shall conform to the requirements of MIL-E-16400G to the extent specified herein. The AN/BRA-34(V), AN/BRA-34A(V), and AN/BRA-34B(V) are multifunction antenna groups that provide signals to communication and navigation systems and support very low frequency (VLF), low frequency (LF), medium frequency (MF), high frequency (HF), ultra high frequency (UHF) line-of-sight (LOS), Navy navigation satellite (NAVSAT), UHF satellite communications (SATCOM), identification, friend or foe (IFF), and global positioning system (GPS) (AN/BRA-34(V)2, AN/BRA-34A(V)2, and AN/BRA-34B(V)2 configurations only) submarine communications and navigation requirements. The antenna group shall consist of an antenna control unit in the radio room and an interconnecting junction box, a hull-penetration (see 6.4.5) connector for electrical connections, a special purpose electrical cable, and a mast antenna. There are six configurations of the antenna group: AN/BRA-34(V)1, AN/BRA-34A(V)1, AN/BRA-34B(V)1, AN/BRA-34(V)2, AN/BRA-34A(V)2, and AN/BRA-34B(V)2. Incorporation of software, firmware, or microprocessors in the antenna group shall not be permitted.

3.1.1 First article. When specified in the contract or purchase order, a sample shall be subjected to first article inspection (see 4.3 and 6.3).

3.1.2 Antenna group description. The antenna group shall consist of the equipment shown in FIGURE 1. The antenna group relationship of units shown in FIGURE 2 is typical and is provided for reference only. Antenna group drawings, NAVSEA microfilm reel 28617A and reel 28617B, and NUSC drawing (DWG) 03428001 shall be used for general guidance, unless specifically referenced.

3.2 Details of units or parts. Detailed requirements shall be as specified in 3.2.1 through 3.2.8.

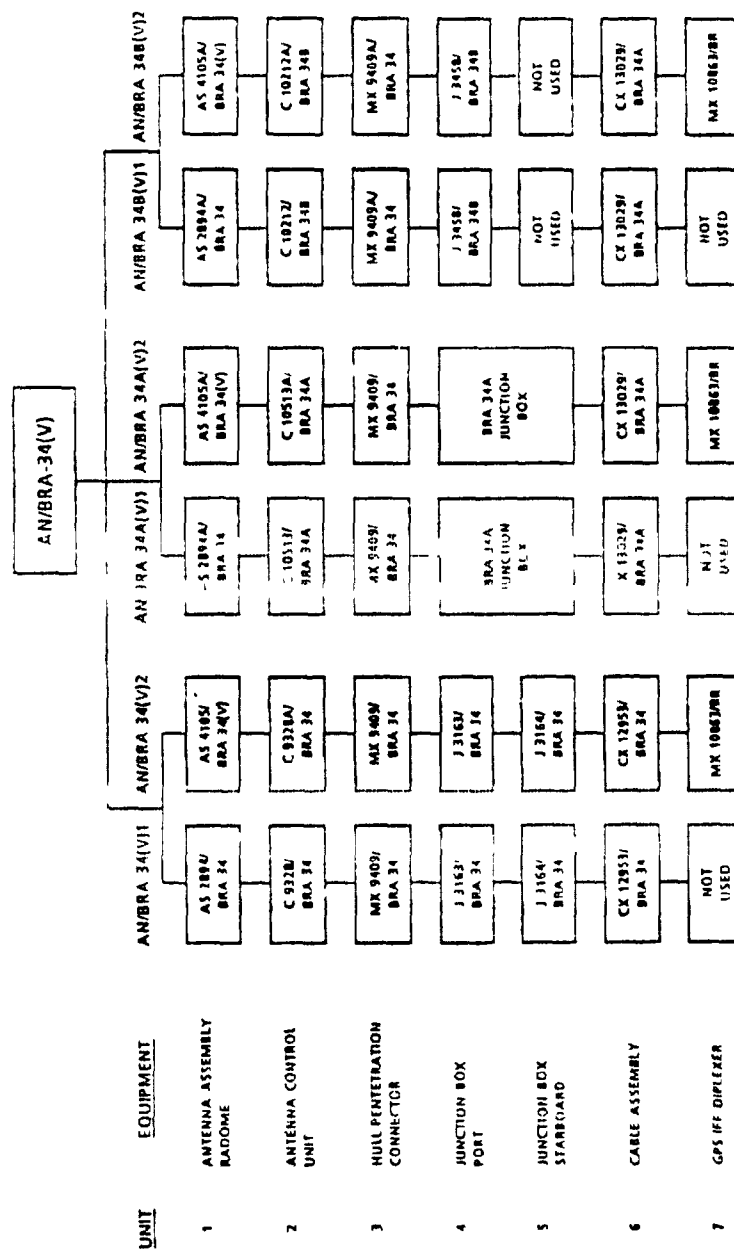
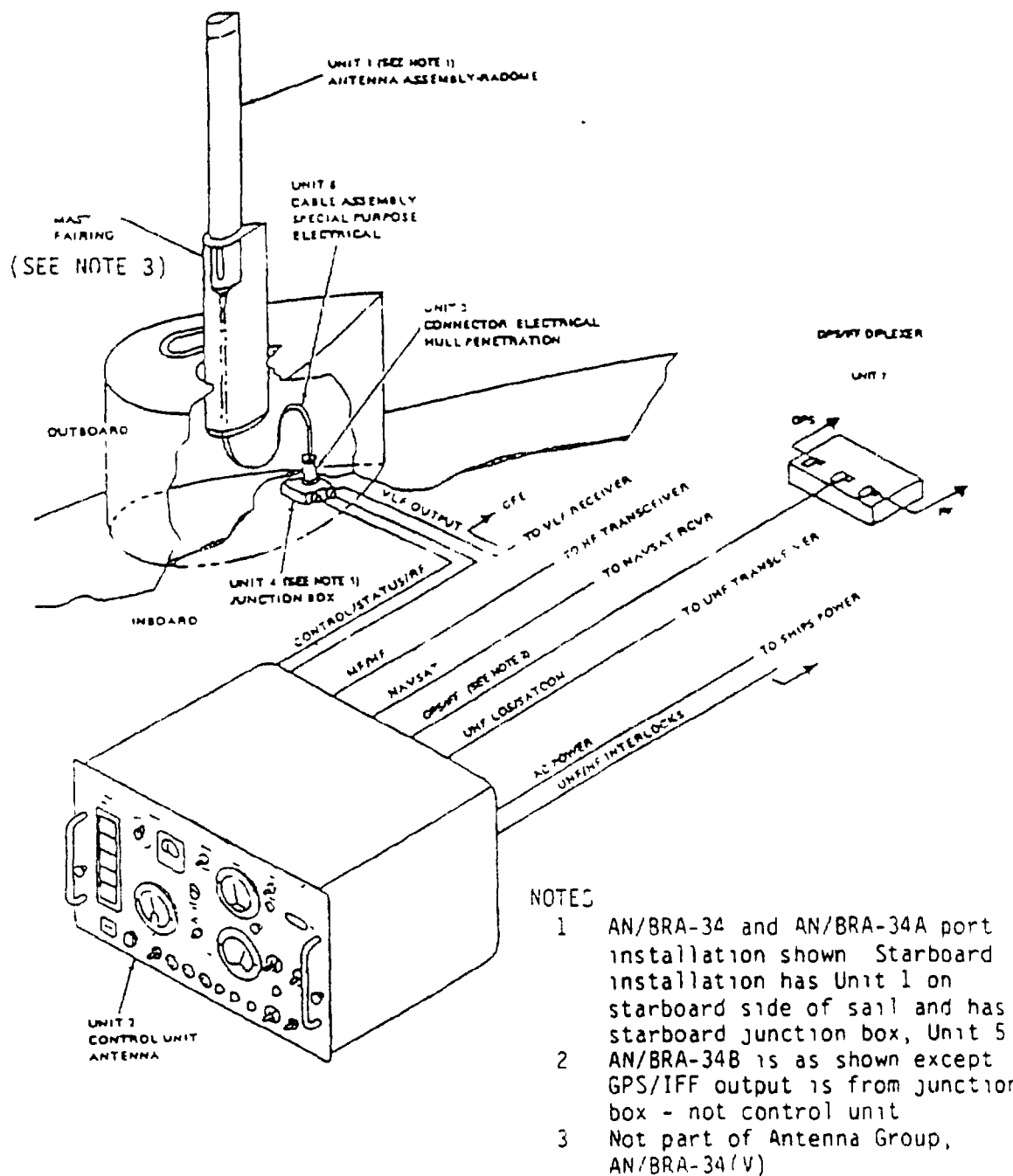
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FIGURE 1 Definition of equipment nomenclature

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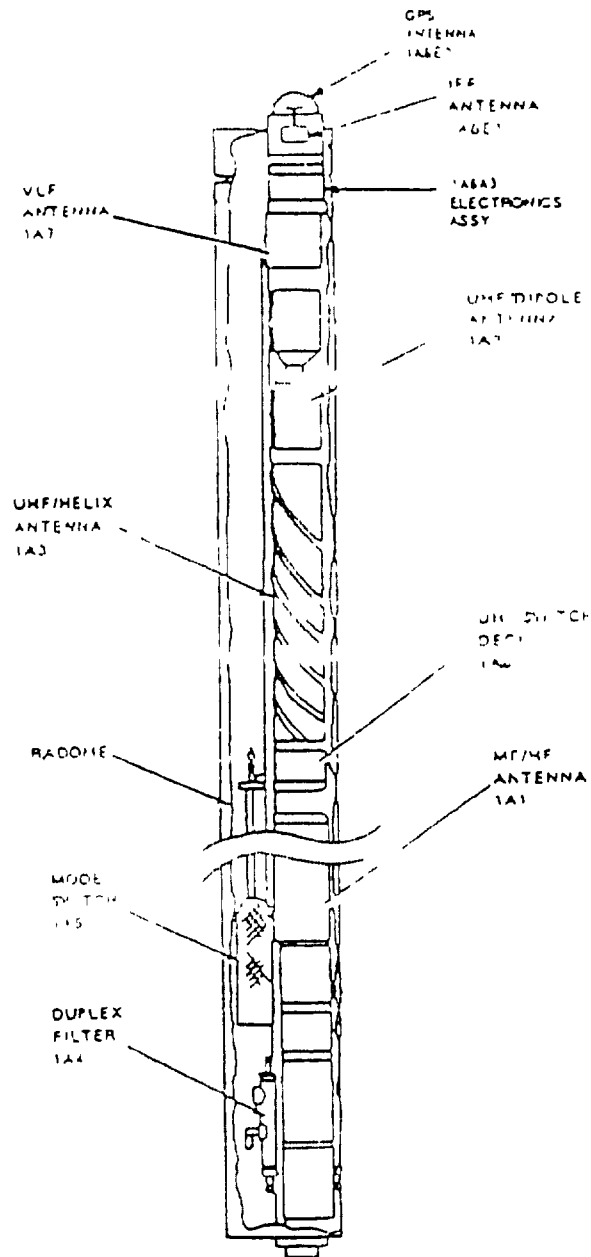


FIGURE 3 Unit 1, antenna assembly-radome