

MIL-D-81609C(AS)
 AMENDMENT 1
 10 SEPTEMBER 1986

MILITARY SPECIFICATION
 DETECTING SET, MAGNETIC AN/ASQ-81(V)

This amendment forms a part of MIL-D-81609C(AS), dated 23 July 1981, and is approved for use by the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

*1.2, line 2: Delete "eleven" and substitute "fifteen".

PAGE 2

Delete subitems (7) and (8) in their entirety and substitute the following:

"(7) Detecting Set, Magnetic AN/ASQ-81D(V)-1 (inboard)

<u>Unit</u>	<u>Type Designation</u>	<u>Appl. Paragraph</u>
Control, Detecting Set	C-6983/ASQ-81(V)	3.5.1
Amplifier-Power Supply	AM-4535/ASQ-81(V)	3.5.2
Base, Shock Mount	MT-3618/ASQ-81(V)	3.5.3
Detector, Magnetic	DT-323D/ASQ-81(V)	3.5.4

(8) Detecting Set, Magnetic AN/ASQ-81D(V)-3 (inboard)

<u>Unit</u>	<u>Type Designation</u>	<u>Appl. Paragraph</u>
Control, Detecting Set	C-9086/ASQ-81(V)	3.5.1
Amplifier-Power Supply	AM-4535/ASQ-81(V)	3.5.2
Detector, Magnetic	DT-323D/ASQ-81(V)	3.5.4"

PAGE 3

Delete subitems (9) through (11) in their entirety and substitute the following:

"(9) Detecting Set, Magnetic AN/ASQ-81A(V)-2 (Towed)

<u>Unit</u>	<u>Type Designation</u>	<u>Appl. Paragraph</u>
Control, Detecting Set	C-9086/ASQ-81(V)	3.5.1
Amplifier-Power Supply	AM-4535/ASQ-81(V)	3.5.2
Base, Shock Mount	MT-3618/ASQ-81(V)	3.5.3
Towed Body, Magnetic Detecting	TB-623/ASQ-81(V)	3.5.5
Control, Reeling Machine	C-6984A/ASQ-81(V)	3.5.6
Reeling Machine, Magnetic Detector, Launching	RL-305A/ASQ-81(V)	3.5.7

AMSC N/A

FSC 5895

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

MIL-D-81609C(AS)
AMENDMENT 1

(10) Detecting Set, Magnetic AN/ASQ-81B(V)-2 (Towed)

<u>Unit</u>	<u>Type Designation</u>	<u>Appl. Paragraph</u>
Control, Detecting Set	C-9086/ASQ-81(V)	3.5.1
Amplifier-Power Supply	AM-4535/ASQ-81(V)	3.5.2
Base, Shock Mount	MT-3618/ASQ-81(V)	3.5.3
Towed Body, Magnetic Detecting	TB-623A/ASQ-81(V)	3.5.5
Control, Reeling Machine	C-6984A/ASQ-81(V)	3.5.6
Reeling Machine, Magnetic Detector, Launching	RL-305A/ASQ-81(V)	3.5.7"

(11) Detecting Set, Magnetic AN/ASQ-81B(V)-4 (Towed)

<u>Unit</u>	<u>Type Designation</u>	<u>Appl. Paragraph</u>
Control, Detecting Set	C-10557/ASQ-81(V)	3.5.1
Amplifier-Power Supply	AM-4535/ASQ-81(V)	3.5.2
Base, Shock Mount	MT-3618/ASQ-81(V)	3.5.3
Towed Body, Magnetic Detecting	TB-623A/ASQ-81(V)	3.5.5
Control, Reeling Machine	C-10556/ASQ-81(V)	3.5.6
Reeling Machine, Magnetic Detector, Launching:	RL-305A/ASQ-81(V)	3.5.7"

Add the following subitems:

"(12) Detecting Set, Magnetic AN/ASQ-81C(V)-2 (Towed)

<u>Unit</u>	<u>Type Designation</u>	<u>Appl. Paragraph</u>
Control, Detecting Set	C-9086/ASQ-81(V)	3.5.1
Amplifier-Power Supply	AM-4535/ASQ-81(V)	3.5.2
Base, Shock Mount	MT-3618/ASQ-81(V)	3.5.3
Towed Body, Magnetic Detecting	TB-623B/ASQ-81(V)	3.5.5
Control, Reeling Machine	C-6984A/ASQ-81(V)	3.5.6
Reeling Machine, Magnetic Detector, Launching	RL-305A/ASQ-81(V)	3.5.7

(13) Detecting Set, Magnetic AN/ASQ-81C(V)-4 (Towed)

<u>Unit</u>	<u>Type Designation</u>	<u>Appl. Paragraph</u>
Control, Detecting Set	C-10557/ASQ-81B(V)	3.5.1
Amplifier-Power Supply	AM-4535/ASQ-81(V)	3.5.2
Base, Shock Mount	MT-3618/ASQ-81(V)	3.5.3
Towed Body, Magnetic Detecting	TB-623B/ASQ-81(V)	3.5.5
Control, Reeling Machine	C-10556/ASQ-81(V)	3.5.6
Reeling Machine, Magnetic Detector, Launching	RL-305A/ASQ-81(V)	3.5.7

MIL-D-81609C(AS)
AMENDMENT 1

(14) Detecting Set, Magnetic AN/ASQ-81D(V)-2 (Towed)

<u>Unit</u>	<u>Type Designation</u>	<u>Appl. Paragraph</u>
Control, Detecting Set	C-9086/ASQ-81(V)	3.5.1
Amplifier-Power Supply	AM-4535/ASQ-81(V)	3.5.2
Base, Shock Mount	MT-3618/ASQ-81(V)	3.5.3
Towed Body, Magnetic Detecting	TB-623C/ASQ-81(V)	3.5.5
Control, Reeling Machine	C-6984A/ASQ-81(V)	3.5.6
Reeling Machine, Magnetic Detector, Launching	RL-305A/ASQ-81(V)	3.5.7"

(15) Detecting Set, Magnetic AN/ASQ-81D(V)-4 (Towed)

<u>Unit</u>	<u>Type Designation</u>	<u>Appl. Paragraph</u>
Control, Detecting Set	C-10557/ASQ-81(V)	3.5.1
Amplifier-Power Supply	AM-4535/ASQ081(V)	3.5.2
Base, Shock Mount	MT-3618/ASQ-81(V)	3.5.3
Towed Body, Magnetic Detecting	TB-623C/ASQ-81(V)	3.5.5
Control, Reeling Machine	C-10556/ASQ-81(V)	3.5.6
Reeling Machine, Magnetic Detector, Launching"	RL-305A/ASQ-81(V)	3.5.7

PAGE 4

*2.1, Delete the sentence beginning with the words "issue of documents" and ending with the words "to the extent specified herein:" and substitute the following:

Issues of Documents - The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues shall be those in effect on the date of the solicitation.

PAGE 5

Under "Naval Air Systems Command" add the following"

"WS-6536 Process Procedures Specification and Requirements for Preparation and Soldering of Electrical Connections"

Under "Standards, Military" change the title of MIL-STD-415 as follows: delete "Test Points and Test Facilities for Electronic Systems and Associated Equipment, Design Standard for" and substitute:

"Test Provisions for Electronic Systems and Associated Equipment, Design Criteria for"

MIL-D-81609C(AS)
AMENDMENT 1

PAGE 6

Under "Standards, Military" add the following between MIL-STD-831 and MS25212:

"MIL-STD-883 Test Methods and Procedures for Microelectronics
MIL-STD-965 Parts Control Program
MIL-STD-2076 Unit Under Test Compatibility with Automatic Test
 Equipment, General Requirements for"

PAGE 7

*3.3, Add a sentence as follows:

"Soldering process shall be in accordance with WS-6536".

*3.3.1, Make the following changes to subparagraph "a"; Line 2:

- a. Delete "or" and after "AN/ASQ-81C(V)-3" delete the "period" and substitute a "comma" and add "or AN/ASQ-81D(V)-3".

PAGE 8

*3.3.1, -continued, make the following:

- b. Delete "or" and after "AN/ASQ-81C(V)-3" delete the "period" and substitute a "comma" and add "or AN/ASQ-81D(V)-1".
- c. Delete in its entirety and substitute the following:

"c. 160.8 pounds for Detecting Set, Magnetic AN/ASQ-81A(V)-2, AN/ASQ-81B(V)-2, AN/ASQ-81B(V)-4, AN/ASQ-81C(V)-2, AN/ASQ-81C(V)-4, AN/ASQ-81D(V)-2, or AN/ASQ-81D(V)-4."

*3.3.2.1, line 2: Delete the "period (.)" and substitute a "comma (,)" after "MIL-STD-785" and add the following:

"Tasks 101 through 105 and 207"

*3.3.2.4, Make the following changes to subparagraph "a" and "b":

- a. Delete "or" and after "AN/ASQ-81C(V)-1" delete the "period" and substitute a "comma" and add "AN/ASQ-81D(V)-1, and AN/ASQ-81D(V)-3"
- b. After "AN/ASQ-81C(V)-4" delete the "period" and substitute a "comma" and add "AN/ASQ-81D(V)-2, and AN/ASQ-81D(V)-4"

MIL-D-81609C(AS)
AMENDMENT 1

PAGE 9

*3.3.2.5, Make the following changes to subparagraph "c" and "d":

- c. Under the column titled "Type Designation" add "or" after "DT-323C/ASQ-81(V)" and add "DT-323D/ASQ-81(V)" below "DT-323C/ASQ-81(V)"
- d. Under the column titled "Type Designation" add "or" after "TB-623B/ASQ-81(V)" and add "TB-623C/ASQ-81(V)" below "TB-623B/ASQ-81(V)"

PAGE 14

*3.3.7.1, After the sentence ending in the words "with MIL-STD-471 and MIL-STD-471" add a sentence as follows:

"The maintainability program shall cover those requirements of Tasks 101, 102, 103, 104, 203, 205, and 301 of MIL-STD-470."

*3.3.7.2.1, Make the following changes to subitems "c" and "d":

- "c. Under the column titled "Type Designation" add "or" after "DT-323C/ASQ-81(V)" and add "DT-323D/ASQ-81(V)" below "DT-323C/ASQ-81(V)"
- d. Under the column titled "Type Designation" add "or" after "TB-623B/ASQ-81(V)" and add "TB-623C/ASQ-81(V)" below "TB-623B/ASQ-81(V)"."

Add a new subitem "g".

"g. Base, Shock Mount MT-3618/ASQ-81(V) HRA."

PAGE 17

*3.3.7.3.3, Delete subitems g through k in their entirety and substitute the following, plus additions:

	<u>"Configuration</u>	<u>LRA Ratio</u>	<u>N-A Ration</u>	<u>Fl Ratio</u>
g.	AN/ASQ-81D(V)-1	0.66	0.97	1.00
h.	AN/ASQ-81D(V)-3	0.66	0.97	1.00
j.	AN/ASQ-81A(V)-2	0.80	0.80	1.00
k.	AN/ASQ-81B(V)-2	0.80	0.80	1.00
m.	AN/ASQ-81B(V)-4	0.80	0.80	1.00
n.	AN/ASQ-81B(V)-2	0.80	0.80	1.00
p.	AN/ASQ-81B(V)-4	0.80	0.80	1.00
q.	AN/ASQ-81D(V)-2	0.80	0.80	1.00
r.	AN/ASQ-81D(V)-4	0.80	0.80	1.00"

MIL-D-81609C(AS)
AMENDMENT 1

*3.3.7.4.1, Delete in its entirety:

"*3.3.7.4.1 Compatibility with automatic test equipment (ATE) - To the greatest extent practicable, the equipment shall be compatible with ATE in accordance with MIL-STD-2076. When specified in the contract, test data shall be prepared for the procuring activity to enable the revision of the test program sets. (6.2.2)"

*3.3.7.4.2, Delete subitems a through f in their entirety and substitute:

"	<u>Unit</u>	<u>QRA Ratio</u>	<u>SN-A Ratio</u>	<u>SF1 Ratio</u>
a.	Control Detecting Set C-6983/ASQ-81(V) or C-9086/ASQ-81(V) or C-10557/ASQ-81(V)	0.75	0.74	0.75
b.	Amplifier-Power Supply AM-4535/ASQ-81(V)	0.89	0.89	0.94
c.	Detector, Magnetic DT-323/ASQ-81(V) or DT-323A/ASQ-81(V) or DT-323B/ASQ-81(V) or DT-323C/ASQ-81(V) or DT-323D/ASQ-81(V)	N.A.	N.A.	N.A.
d.	Towed Body, Magnetic Detecting TB-623/ASQ-81(V) or TB-623A/ASQ-81(V) or TB-623B/ASQ-81(V) or TB-623C/ASQ-81(V)	N.A.	N.A.	N.A.
e.	Reeling Machine, Detector Launching RL-305A/ASQ-81(V)	0.50	0.80	1.00
f.	Control, Reeling Machine C-6984/ASQ-81(V) C-10556/ASQ-81B(V)	N.A.	N.A.	N.A."

PAGE 18

*3.3.7.5, Delete in its entirety and substitute:

"*3.3.7.5 Maintainability Demonstration. Testing to demonstrate the achievement of the maintainability requirement specified herein shall be in accordance with 4.5."

*3.3.9, Change subitems "e (1), (2) and (3)" as follows:

- "e. Input Power Voltage
(1) Delete "or" and after "AN/ASQ-81C(V)-1" add ", AN/ASQ-81D(V)-1, or AN/ASQ-81D(V)-3"
(2) Delete "or" and after "AN/ASQ-81C(V)-2" add ", AN/ASQ-81D(V)-1, or AN/ASQ-81D(V)-2"
(3) Delete "or" and after "AN/ASQ-81C(V)-4" add ", AN/ASQ-81D(V)-4"

MIL-D-81609C(AS)
AMENDMENT 1

PAGE 19

*3.3.10.1, Add a new subparagraph following 3.3.10.1.1 as follows:

"*3.3.10.1.2 Towed Body, Magnetic Detecting TB-623C/ASQ-81(V) - The Towed Body, Magnetic Detecting TB-623C/ASQ-81(V) shall be subjected to the vibration levels of Curve VII2 of Figure 8 of MIL-T-5422."

*3.3.10.2, Delete in its entirety and substitute:

"*3.3.10.2 Temperature - The equipment shall operate satisfactorily when subjected to the temperature requirements of Class 1A equipment of Specification MIL-E-5400 except for detector, Magnetic and the Towed Body, Magnetic Detecting TB-623C/ASQ-81(V)."

*3.3.10.2.1, In the title to this paragraph delete "or DT-323C/ASQ-81(V)-" and substitute "DT-323C/ASQ-81(V) or DT-323D/ASQ-81(V)"

PAGE 20

*3.3.10.2.2, In the title to this paragraph delete "or" and after "DT-623B/ASQ-81(V)" substitute ", or DT-623C/ASQ-81(V)"

*3.3.10.3.1, Delete in its entirety and add a new paragraph as follows:

"*3.3.10.3.1 Rate of change in altitude - The maximum rate of change in altitude for the DT-323D/ASQ-81(V) and Towed Body TB-623/ASQ-81(V) shall be unrestricted."

After paragraph 3.3.10.4 add the following paragraphs:

"*3.3.10.5 Humidity - The equipment shall withstand the effects of humidity up to 95 percent during operating and nonoperating conditions.

*3.3.10.6 Explosive Conditions - The equipment shall meet the explosive condition requirements of MIL-E-5400.

*3.3.10.7 Sand and Dust - The equipment shall withstand, in both operating and nonoperating condition, exposure to sand and dust particles as encountered in the operational areas of the world.

*3.3.10.8 Salt Atmosphere - The equipment shall withstand, in both operating and nonoperating condition, exposure to a salt-sea atmosphere."

PAGE 24

*3.5.1, Make the following changes:

- a. After "Type IV" add "or V"
- b. After "Type IV" add "or V"
- c. Delete in its entirety and substitute:

MIL-D-81609C(AS)
AMENDMENT 1

"c. The C-10557/ASQ-81B(V) shall include a black edge lighted panel with IPL white lights to conform to MIL-P-7788, Class 1-W, Type IV or V with lamp voltage of 5 volts. Adjustment knobs shall be grey. The light transmitted through the white markings of the panel shall meet the chromaticity requirements for instrument and panel lighting white, type 1(g) of MIL-C-25050."

PAGE 25

*3.5.1.5.e, Make the following change:

e. After "Magnetic Distortion RO-32/ASQ" and before the "comma" add "and RO-358/ASQ-13 Multi-purpose recorder".

PAGE 27

*3.5.4, In the title to this paragraph delete "or" before "DT-323C/ASQ-81(V)", and add ", or DT-323D/ASQ-81(V)" before "DT-323C/ASQ-81(V)"

PAGE 28

*3.5.5, After "TB-623B/ASQ-81(V)" add ", TB-623C/ASQ-81(V)".

PAGE 29

*3.5.5.5.1, Delete in its entirety and substitute:

"*3.5.5.5.1 Finish - The nose of the Towed Body shall be black, color #17038 per FED-STD-595. The housing shall be Grey, color #36320 per FED-STD-595. The Stabilizer Assembly part number 1524AS100 shall be procured separately."

*3.5.6, Make the following changes:

- a. After "Type IV" add "or V".
- b. Delete in its entirety and substitute:

"b. The C-10556/ASQ-81B(V) shall include a black edge lighted panel with IPL white lights to conform to MIL-P-7788, Class 1-W, Type IV or V with lamp voltage of 5 volts. Adjustment knobs shall be gray. The light transmitted through the white markings of the panel shall meet the chromaticity requirements for instrument and panel lighting white, type 1(g) of MIL-C025050."

PAGE 31

*3.5.7.1, Line 3: Delete "or" and after "TB-623B/ASQ-81(V)" add ", or TB-623C/ASQ-81(V)".

PAGE 33

*3.5.7.7, Line 2: Delete "consist of the following:" and substitute "be as specified below:". Under subparagraph "b" delete "or" before the words "TB-623B" and substitute "or TB-623C" after "TB-623B".

MIL-D-81609C(AS)
AMENDMENT 1

PAGE 34

*4.2.2, Delete all the words after "to", including subitems "a", "b", and "c" and substitute "those test required to demonstrate the requirements specified in 3.3.6 and 3.3.10."

*4.2.2.1, Delete in its entirety and substitute:

"*4.2.2.1 Burn In - As a minimum each of the AN/ASQ-81(V) Modules, SRA's and WRA's shall undergo the following burn-in. If any of the WRA's are subjected to burn-in then all WRA's shall be subjected to burn-in.

a. All electronic WRA's including Detector Set Control, Power Supply Amplifier, Magnetic Detector and Magnetic Detecting Towed Body shall receive as a minimum two burn-in cycles utilizing the test environment requirements of 4.2.2.1.1.

b. Each electronic Module or SRA of the reeling machine shall be subjected to a minimum of three cycles of thermal shock over the temperature range of -54°C to $+55^{\circ}\text{C}$ under the temperature cycle duration stipulated in 4.2.2.1.1."

Add the following sub-paragraphs:

"*4.2.2.1.1 Test Environment Requirements - The following test environments are applicable to burn-in.

- | | |
|-----------------------------|--|
| a. Temperature | -54°C to $+55^{\circ}\text{C}$ (-65°F to 138°F) |
| b. Temperature Cycle Length | 12 hours with a heating period of 9 hours. |
| c. Vibration | 2.2 + 10 percent peak acceleration value at any nonresonant frequency between 20 and 60Hz measured at the mounting points on the equipment. The duration of the vibration shall be at least 10 minutes during each hour of operating time. |
| d. Input voltage Nominal | +5 -2 percent of specified voltage. |

*4.2.2.2 Bench Test - These tests shall be conducted to demonstrate compliance with the specified performance parameters of 3.4 and 3.5 of this specification.

*4.2.2.3 Power Input Test - Each equipment shall be subjected to a range of input voltage and frequencies as specified herein:

- a. The input voltage shall be varied within the limits in paragraph 3.3. The input frequency shall remain between the limits of 380 Hz and 420 Hz. The equipment shall perform as specified in paragraph 3.3.12.

MIL-D-81609C(AS)
AMENDMENT 1

b. It shall be demonstrated that the input voltage transients greater than those specified shall not cause damage to the equipment and when the voltage returns within the specified limits normal operation shall automatically resume (see 3.3.12).

*4.2.2.4 Temperature Tests - These tests shall be conducted in accordance with MIL-E-5400 and the requirements of 3.3.10.2.

*4.2.2.5 Altitude Tests - The tests shall be conducted in accordance with MIL-5400 and the requirements of 3.3.10.3.

*4.2.2.6 Vibration Tests - These tests shall be conducted in accordance with MIL-E-5400, MIL-T-5422 and 3.3.10.1.

*4.2.2.7 Crash Safety Tests - This test shall be conducted in accordance with MIL-E-5422.

*4.2.2.8 Humidity Tests - This test shall be in accordance with MIL-T-5422 and 3.3.10.

*4.2.2.9 Salt Atmosphere Tests - These tests shall be in accordance with MIL-T-5422.

*4.2.2.10 Explosion Test - An analysis in lieu of test is acceptable.

*4.2.2.11 Interference Tests - These shall be conducted in accordance with MIL-STD-461 to demonstrate the requirements of 3.3.6."

PAGE 36

*4.4.1, Make the following changes:

Delete subparagraph "c" in its entirety and substitute:

"c. Manufacturing Screening (See 4.4.1.3)"

Add a new subparagraph "d":

"d. Manufacturing Run In Test (See 4.4.1.4)"

Delete "4.4.1.3 Manufacturing Run In Test" and substitute

"*4.4.1.4 Manufacturing Run In Test".

Add a new paragraph 4.4.1.3 as follows and insert before paragraph 4.4.1.4.

*4.4.1.3 Manufacturing Screening - Each equipment shall undergo 10 minutes of random vibration per Figure 4. The vibration shall be applied perpendicular to the plane of the printed circuit boards in a minimum of two axis for all electronic modules, SRA's, and WRA's including SRA's on the reeling machine. If different planes exist, the vibration shall be applied to each axis for 10 minutes. After completion of random vibration, each module, SRA and WRA shall be examined carefully to determine that materials and workmanship

MIL-D-81609C(AS)
AMENDMENT 1

requirements have been met and that no material failures have occurred. In addition to the examination above, each electronic module, SRA and WRA shall receive a bench check per 4.2.2.2."

PAGE 38

*4.4.3.1, Delete in its entirety and substitute:

**4.4.3.1 Qualification Phase - Prior to acceptance of the equipment under the contract or order, a minimum of three (3) equipments shall be tested. The maximum number of equipments shall be those listed below. The test environment requirements of 4.4.2.1.1 shall apply. The Accept/Reject Criteria of Test Plan IVC of MIL-STD-781 shall apply.

Recommended Quantity of Equipment
For
Qualification (Demonstration) Phase Test

<u>Lot Size</u>	<u>Recommended Sample Size</u>	<u>Maximum Sample Size</u>
1 - 3	All	All
4 - 16	3	9
17 - 52	5	15
53 - 96	8	19
96 - 200	13	21
over 200	20	22"

*4.4.3.2, Delete in its entirety and substitute:

**4.4.3.2 All Equipment Screening Phase

*4.4.3.2.1 Burn In - Each AN/ASQ-81(V) module, SRA, and WRA shall receive a burn-in in accordance with 4.2.2.1 prior to commencing all equipment screening phase.

*4.4.3.2.2 Test Requirements - Each AN/ASQ-81(V) WRA except the reeling machine and reeling machine control shall be tested as outlined in MIL-STD-781, paragraph 4.5.4., Test Plan XVIIIIC (All Equipment Production Reliability Acceptance). The MTBF's that shall be used in determining the curves of Test Plan XVIIIIC are as follows:

<u>Description</u>	<u>Reference Designator</u>	<u>MTBF Hours</u>
Control Detecting Set	C-6983/ASQ-81(V) or C-9086/ASQ-81(V) or C-10557/ASQ-81(V)	8,000
Amplifier, Power Supply	AM-4535/ASQ-81(V)	1,666
Towed Body, Magnetic or Detector, Magnetic	TB-623/ASQ-81(V) DT-323/ASQ-81(V)	3,623

The test shall be 75 hours and the test environment requirements as specified in 4.2.2.1 apply. The last two test cycles shall be failure free. The reeling machine and reeling machine control shall be cycled

MIL-D-81609C(AS)
AMENDMENT 1

through ten complete in - reel out operations under simulated load conditions. The latching mechanics shall release and latch the Towed Body or equivalent ten times. The reeling machine control shall be tested at standard conditions."

PAGE 43

Add a new paragraph:

"*6.2.1.1 Test and Inspection Options - These options, if exercised, must be stated as required in the contract.

- | | |
|--|---------------|
| a. Preproduction (First Article) Tests | (see 4.2) |
| b. Initial Production Tests | (See 4.3) |
| c. Qualification Phase | (See 4.4.3.1) |
| d. Special Tests | (See 4.4.4) |
| e. Life Test | (See 4.6)" |

*6.2.2, Delete in its entirety and substitute:

"*6.2.2 Data Requirements -

When the provisions of DOD FAR Supplement, Part 27, Sub-Part 27.410-6 are invoked and DD 1423 is not used, the data specified below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this specification are cited in the following paragraphs:

<u>Paragraph No.</u>	<u>Data Requirements Title</u>	<u>Applicable DID No.</u>
3.2.1	Non-Standard Parts Approval Requests	DI-MISC-80071
3.3.2.1	Reliability Program Plan	DI-R-7079
3.3.4	Requirements, Rack or Console Mounted Control Drawing	UDI-E-21339
3.3.7.2	Maintainability Program Plan	DI-R-7103
3.3.8	Request Assignment of Nomenclature	UDI-E-21582
3.3.8	Request, Confirmation of Nomenclature	UDI-E-21583
3.3.8	Request, Approval of Identification Plate Drawings	UDI-E-21584
3.3.8	Request, Serial Number Assignment	UDI-E-21585
3.5.4.5	Procedures, Test	UDI-T-21347
4.2	Procedures, Test	UDI-T-21347
4.4.3.1	Procedures, Test	UDI-T-21347
4.4.3.2	Procedures, Test	UDI-T-21347
4.2	Report, First Article (Preproduction) Test	UDI-T-21349

MIL-D-81609C(AS)
AMENDMENT 1

PAGE 43 - continued

<u>Paragraph No.</u>	<u>Data Requirements Title</u>	<u>Applicable DID No.</u>
4.2	Report, Failed Item Analysis	DI-R-7039
4.4.3.1	Report, Failed Item Analysis	DI-R-7039
4.4.3.2	Report, Failed Item Analysis	DI-R-7039
4.7	Procedures, Test	UDI-T-21347"

PAGE 44

*Add the following subitems:

- "d. RO-358/ASQ-13 Multi-purpose Recorder
- e. CV-3435/A Converter-Multiplexer
- f. AN/AYK-10 Digital Computer"

PAGE 45

Add a new paragraph:

**6.10 Subject Term (key word) Listing

Ambiguity
Anomalies
Anomaly
Cardinal
Gamma
Intercardinal
Lamberts
Laramor Frequency
Peripheral
Metastable helium"

PAGE 46

*Figure 1 - Make the following changes:

- a. In the title to Figure 1 delete "or" and after "TB-623B/ASQ-81(V)" add "or TB-623C/ASQ-81(V)".
- b. Under "Notes" add the following new note:

7. The removable stabilizer is GFE. The removeable stabilizer has had the following nomenclature and Navy stock No.:

Nomenclature: Stabilizer Assembly
Navy Stock No.: 1524AS100"

PAGE 47

*Figure 2 - Delete in its entirety.

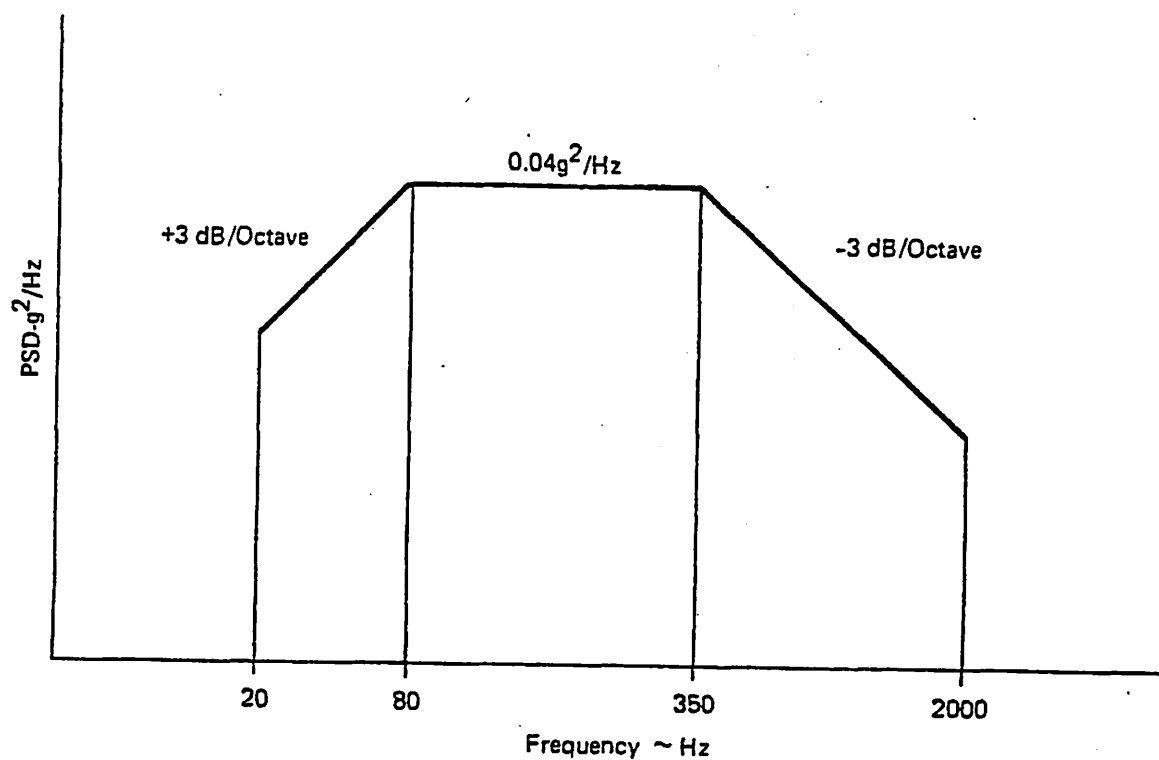
MIL-D-81609C(AS)
AMENDMENT 1

PAGE 47 - continued

*Figure 4 - Add Figure 4.

Preparing Activity
Navy - AS
(Project. 5895-N325

MIL-D-81609C(AS)
AMENDMENT 1



*FIGURE 4. RANDOM VIBRATION SPECTRUM