

MIL-C-85003B(AS)
AMENDMENT 1
21 OCTOBER 1986

MILITARY SPECIFICATION

CHAFF CARTRIDGE (TYPE RR-()/AL), GENERAL SPECIFICATION for

This amendment forms a part of Military Specification MIL-C-85003B(AS) dated 17 May 1983 and is approved for use within the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

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3.4.3: Delete "MK 131 MOD 0 and QII-1623-03 impulse cartridge" and substitute "CCU-41/B (QII-1627-03) impulse cartridge".

PAGE 6

3.8.1: Delete "an outer case, cap, squib retainer," and substitute "a one piece case/squib retainer, end-cap".

3.8.2: Delete in its entirety and substitute:

"3.8.2 Marking. The side of each cartridge and top of end-cap shall be marked in accordance with the requirements of MIL-STD-130, DL 1050AS126 and the applicable specification sheet. The end-cap shall be the color as specified in the applicable specification sheet."

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4.1.2: Delete in its entirety.

4.2.2: Lines 4 and 5: Delete "table I" and substitute "Table I".

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Table I, High Temperature, Chaff Cartridge Group 3: Delete "X".

4.3: Delete in its entirety and substitute:

"4.3 Initial production inspections. Ninety of the first 1,000 production chaff cartridges shall be selected and sent at the contractor's expense to a designated Government laboratory for inspection. No other

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inspections, other than those designated below, shall be conducted on the samples prior to starting the initial production inspections. The first article units shall not be selected for this inspection. The Government laboratory inspection procedures shall include, but not be restricted to, the procedures of 4.6, 4.7, 4.8.2 and 4.11. Initial production inspection shall also include ground test firing (4.9 and 4.9.2) and shall be conducted by the contractor or a Government approved facility. The ground test firing samples shall also be selected from the same first 1,000 production chaff cartridges. The initial production inspection samples shall be selected by the Government representative after they have successfully passed all the production individual inspection procedures of 4.4.1 and material inspections of 4.6. The contractor shall also inspect to the procedures of 4.8.2, the cartridges selected by the Government representative prior to the contractors ground test firing and shipment to the Government laboratory of the ninety cartridges noted above."

PAGE 11

4.6.1.1.2: Delete "(M101)".

PAGE 12

4.6.1.2.1: Delete "(M102)".

4.8.1: Delete "(M103)". Sixth line, delete "squib retainer, piston and fiber dividers" and substitute "end-cap". The eighth line, delete "end-cap" and substitute "squib retainer", and delete "1" and substitute "0.5". The ninth line, delete "between the end-cap" and substitute "through the squib retainer against the piston". The 10th and 16th line, delete "end-cap" and substitute "piston". Delete the last sentence and substitute: "Following the test the cartridge may be returned to the production lot, provided the cartridge components are not damaged during performance of the test and a new end-cap is utilized."

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4.8.2: Delete "(M104)". The second sentence, delete: "One hundred samples from the initial production units" and substitute "all of the initial production samples (90 plus ground fire cartridges)".

4.9.3: Delete in its entirety and substitute:

"4.9.3 Quality conformance test firings. Cartridge case quality conformance inspection test firings shall be the test of 4.9.2 conducted on cartridges utilizing samples selected from each incoming production lot of chaff cartridges cases prior to the use of the cases in the manufacturing of deliverable chaff cartridge assemblies. Production quality conformance inspection test firing shall also be the test of 4.9.2 repeated on each production lot."

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4.10: Add the following sentences to the end of the paragraph:

"During all tests, the cartridges shall be in a dispenser block without impulse cartridges except the temperature tests preceding test firing (ground). The cartridges shall be installed in a dispenser block with impulse cartridges installed during the environmental tests preceding the test firing (ground)."

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4.10.1: Delete in its entirety and substitute:

"4.10.1 High temperature. The chaff cartridges shall be subjected to a High Temperature Test in accordance with MIL-STD-810, Method 501.2, Procedure II except as follows:

- a. Steps 2, the test chamber shall be stabilized at +71 C (+160 F) and maintained for four hours.
- b. Steps 1, 2, 7 and 16 are applicable for test firing (ground).
- c. Steps 1, 2, 15 and the visual portion of step 16 are applicable for functional (flight) testing."

4.10.2: Delete in its entirety and substitute:

"4.10.2 Low temperature. The chaff cartridges shall be subjected to a Low Temperature Test in accordance with MIL-STD-810, Method 502.2, Procedure II except as follows:

- a. Step 1: The test chamber shall be stabilized at -54 C (-65 F) and maintained for four hours.
- b. Steps 1, 10 and 11 are applicable for test firing (ground).
- c. Steps 1, 7, 8, 9, 10 and 11 are applicable for functional (flight) testing. Step 10 is the flight test at the end of the environmental series."

4.10.3: Delete in its entirety and substitute:

"4.10.3 Temperature shock. The chaff cartridges shall be subjected to a Temperature Shock Test in accordance with MIL-STD-810, Method 503.2, Procedure I, except the low temperature extreme shall be -54 C (-65 F) and the high temperature extreme shall be +71 C (+160 F). The operational test is the functional (flight) test at the end of the environmental series."

4.10.4: Delete in its entirety and substitute:

"4.10.4 Humidity. The chaff cartridges shall be subjected to a Humidity Test in accordance with MIL-STD-810, Method 507.2, Procedure III."

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4.10.5: Delete in its entirety and substitute:

"4.10.5 Shock. The chaff cartridge shall be subjected to a Shock Test in accordance with MIL-STD-810, Method 516.3, Procedure I using Figure 516.3-4, Operational Test."

4.10.5.1: Delete "figure 516.2-1" and substitute "Figure 516.3-4".

4.10.6: Delete "Method 514.2, Procedure IIA, including Method 514.2 paragraph entitled, Summary; except as follows:" and substitute "Method 514.3, Procedure IV, steps 1 and 12 and as defined below. Tolerances shall be in accordance with Section II-1.1."

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4.10.6.1 b: Delete in its entirety and substitute:

"4.10.6.1b Critical Design Vibration in accordance with Figure 2, for two minutes in each axis. Followed by Critical Design Vibration in accordance with Figure 3, for eight minutes in each axis."

4.10.6.2: Delete in its entirety:

PAGE 16

FIGURE 1: Delete "0.24" and substitute "0.024".

FIGURE 2: Delete in its entirety and substitute new FIGURE 2, as PAGE 16a.

Following PAGE 16a insert new FIGURE 3, as PAGE 16b.

PAGE 17

4.11.1.4: Delete in its entirety and substitute:

"4.11.1.4 Radar. The RR-()/AL chaff shall be evaluated using a M-33 radar or approved equivalent equipped in accordance with the applicable specification sheet (see 3.1)."

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5.5 Third line, delete "Galvanized" and substitute "Flat steel". Fourth line, delete "B," and substitute "C" and delete "Grade 2".

Preparing Activity
Navy - AS
(Project 5865-N063)

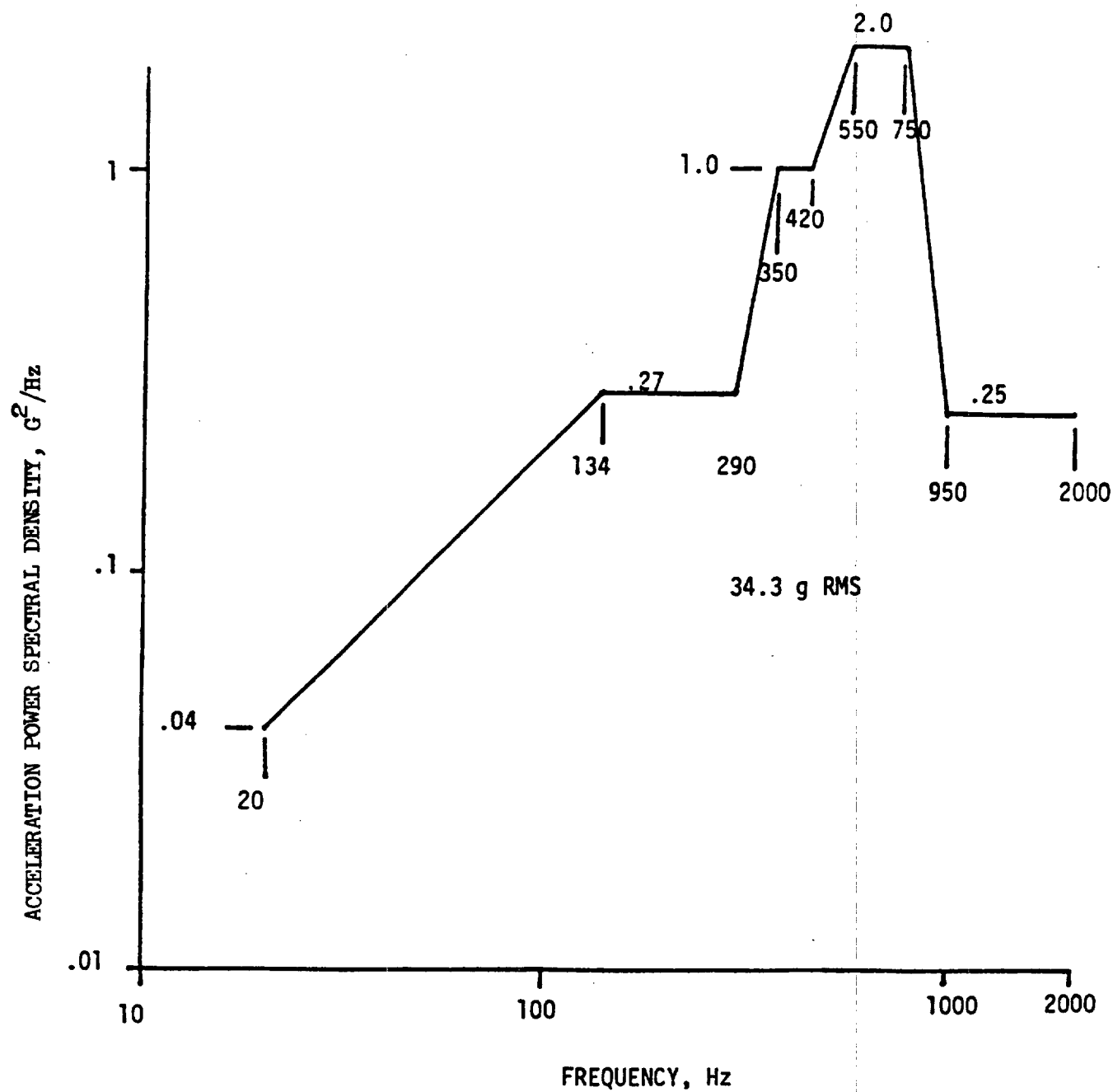


Figure 2. Chaff Cartridge Critical Design Vibration, Takeoff Portion (2 minutes)

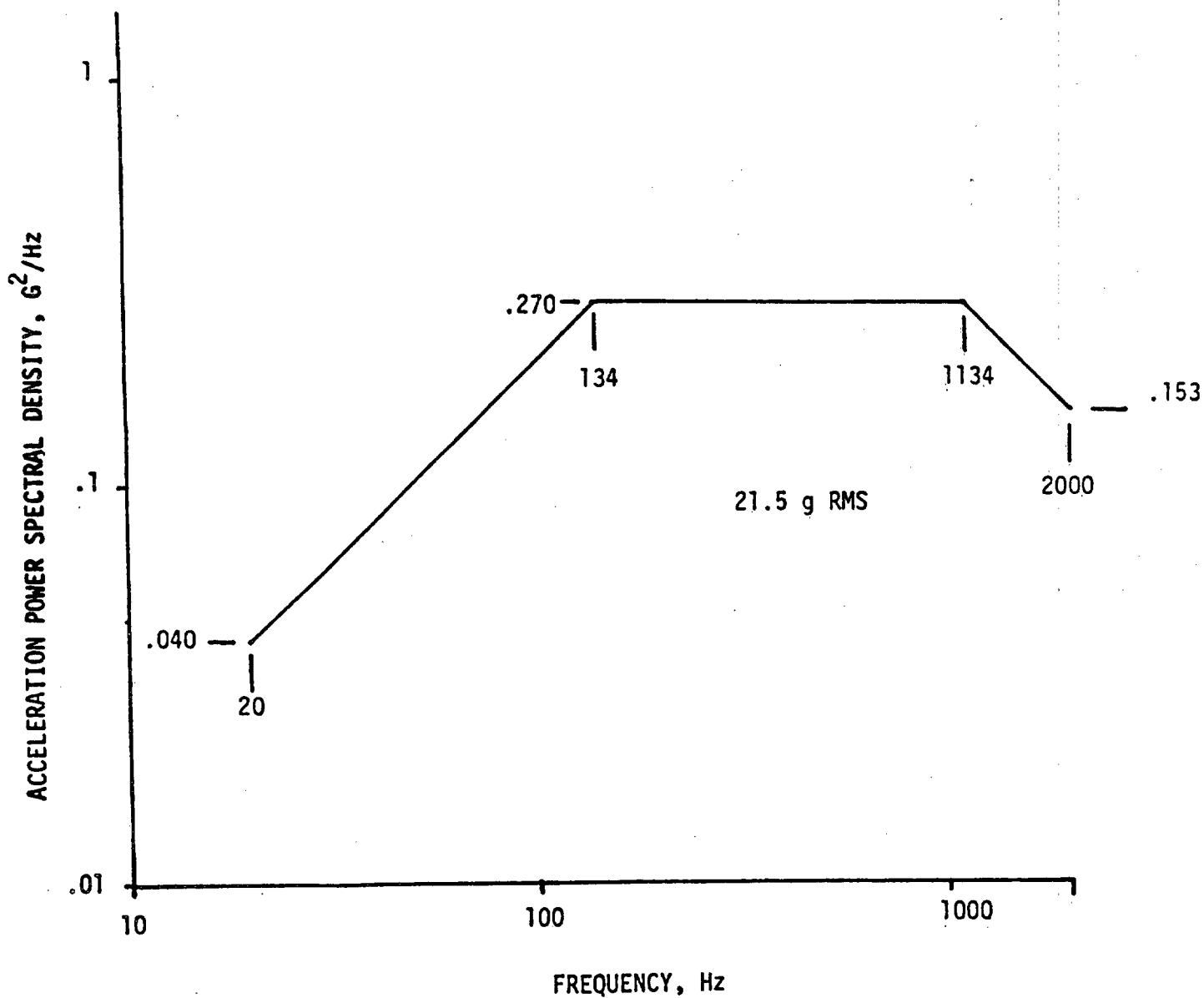


Figure 3. Chaff Cartridge Critical Design Vibration,
Level Flight Portion (8 minutes).