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CHANGE NOTICES ARE NOT CUMULATIVE
AND SHALL BE RETAINED UNTIL SUCH TIME
AS THE ENTIRE STANDARD IS REVISED.

MIL-STD-462
NOTICE -1
1 AUGUST 1968

MILITARY STANDARD

ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS, MEASUREMENT OF

This Notice should be filed in front of Military Standard MIL-STD-462,
dated 31 July 1967.

TO ALL ACTIVITIES:

1. Make the following pen and ink changes:

Page ii:

Delete "31 July 1965" in upper left corner of page and substitute
"31 July 1967".

Delete "MIL-STD-426" in title and substitute "MIL-STD-462".

Paragraph 2, first and second lines: Delete "Systems Engineering
Group (SEPS)" and substitute "Aeronautical Systems Division (ASNPS)".

Page iii:

Twenty-eighth line: Delete "C-E" and substitute "CE".

Fortieth line: Delete "C-W" and substitute "CW".

Forty-seventh and forty-eighth lines: Insert "(Typical)" at end of
title for figure 1 and figure 2.

Delete last line, and substitute the following: "CE05-1 Test Setup
for Conducted Emission Inverse Filter Method26".

Page iv:

Twenty-eighth line: Insert "Typical" as first word of title for
figure RS04-2.

Page 2, paragraph 4.2.1.6, first line: Delete "R.F." and substitute "R.f.".

Page 3:

Paragraph 4.2.2.5.1, first line: Delete "C-E" and substitute "CE"
(two places).

Paragraph 4.2.3.1: Change period to comma at end of paragraph and
add "if authorized by the procuring activity."

Page 4:

Paragraph 4.2.3.2: Delete subparagraph (c) entirely.

Paragraph 4.2.3.6, subparagraph (f), second line: Delete "voltage
on" and substitute "voltage of".

FSC EMCP



Page 5: Delete period at end of figure title and add "(typical)."

Page 6:

Figure 2: Note (4): Delete "does not pick up reflections from the test sample." and substitute "minimizes pickup reflections."
In figure title, delete the period at end of title and add "(typical)."

Paragraph 4.2.6, third line: Delete "MIL-STD-462" and substitute "MIL-STD-461".

Paragraph 4.2.6.1, first line: Delete "C-W" and "cw" and substitute "CW", respectively.

Page 7, paragraph 4.2.6.1, subparagraph (b): Add as new sentence at end of paragraph: "The bandwidth of the measuring instrument shall be stated in the test report."

Page 11/12: Under Air Force review activities, delete "14".

Page 13:

In title, delete "30 HZ TO 20 KHZ" and substitute "30 Hz TO 20 kHz".
Paragraph 2, second line: Delete "Khz" and substitute "kHz".
Paragraph 4.1, subparagraph (c): Delete "that is".
Paragraph 4.2, subparagraph (a): Delete "Khz" and substitute "kHz".

Page 14, upper left corner of figure: To seven notes add "Figure number key:" as title.

Page 15/16:

In note 1, delete "plan" and substitute "plane".
In note 4, second line, delete "AC" and substitute "ac".
Delete note 5 entirely.

Page 17:

In title, delete "30 HZ TO KHZ", and substitute "30 Hz TO 20 kHz".
Paragraph 3: Delete subparagraph (d) entirely.

Page 21/22:

In title, delete "20 KHZ TO 50 MHZ" and substitute "20 kHz TO 50 MHz".
Paragraph 1: Delete "emissions" and substitute "emissions".
Paragraph 2, second line: Delete "29 kHz" and substitute "20 kHz".

Page 23/24:

In title, delete "20 KHZ TO 50 MHZ" and substitute "20 kHz TO 50 MHz".
Paragraph 3: Delete subparagraph (c) entirely.

Page 25: In title, delete "30 HZ TO 50 MHZ" and substitute "30 Hz TO 50 MHz".

Page 27:

In title, delete "10 KHZ TO 12.4 GHZ" and substitute "10 kHz TO 12.4 GHz".
Paragraph 2.1, fourth line: Delete "IF (30 to 300 KHz)" and substitute "IF (30 to 300 kHz)".
Paragraphs 4.1, and 4.3, first line, respectively: Delete "dBw" and substitute "dBW".
Paragraph 4.2, first and second lines: Delete "dBw" and substitute "dBW".

Page 28, paragraph 5.3, third line: Delete "-30 dBw" and substitute "-30 dBW".

Page 29/30:

In note to figure CEO6-1: Delete "AVg." and substitute "Average".
Delete "dBw" and substitute "dBW".
In note to figure CEO6-2: Delete "AVg." and substitute "Average".
Delete "dBw" and substitute "dBW".

Page 31:

In title, delete "30 HZ TO 50 KHZ" and substitute "30 Hz to 50 kHz".
Paragraph 3, subparagraph (b): In first and second lines, after "isolation transformer.", delete period and add "; a substitution may be made, if approved by the procuring activity.". Also, in third line, delete "less than one microhenry,".
Paragraph 4.1, subparagraph (e), second line: After "ratio", add "or shunt the transformer windings with resistance,".
Paragraph 5.2, first line: Delete "CSOL-3" and substitute "CSOL-2".
Paragraph 5.3: In second line, delete "CSOL-3" and substitute "CSOL-2". Also, in fourth line, delete "tests" and substitute "teslas".

Page 37, paragraph 3, subparagraph (b), third line: Delete "is" and substitute "it".

Page 38, paragraph 5(k), second line: Delete "db" and substitute "dB".

Page 41: In title, delete "30 HZ TO 10 GHZ" and substitute "30 Hz TO 10 GHz".

Page 42, paragraph 6.2.2, under "COLUMN B": Delete " $5f_{LO} + IF$ " and substitute " $5F_{LO} + IF$ ".

In the title, delete "30 HZ TO 10 GHZ" and substitute "30 Hz TO 10 GHz".
Paragraph 5:

Subparagraph (d), second line: Delete "generator 1 modulated" and substitute "generator 1 unmodulated".

Subparagraph (i), second line: Delete "corss-modulation" and substitute "cross-modulation".

Page 46, paragraph 6.1, subparagraph (b): Delete "(A₀ emission)" and substitute "(A₀ emission)".

Page 49:

Paragraph 3, subparagraph (a), first line: Delete, and substitute:

(a) Spike Generator. - Spike generator, as approved by the procuring activity, or with characteristics as follows:"

Paragraph 4, subparagraph (f), sixth, seventh, and eighth lines: Delete "Spike synchronization frequency shall be varied from 50 to 800 Hz and its effect on equipment susceptibility noted."

Page 55: In title, delete "30 HZ TO GHZ" and substitute "30 Hz TO 10 GHz".

Page 61: In title, delete "14 KHz" and substitute "14 kHz".

Page 65:

Paragraph 2, third line: Delete "when the following" and substitute "when any of the following".

Paragraph 4.1, subparagraph (c), last line: Delete "mode" and substitute "Model".

Page 66, paragraph 6, subparagraph (a): Delete equation (2) entirely and substitute the following:

$$(2) P_R = P_T + G_T - 20 \log 8\pi + 40 \log \frac{\lambda}{D+d} + G_R$$

Use this equation when $d < 0.4D$.

Page 67, paragraph 6:

Subparagraph (b): Delete equations (1) and (2) entirely, and substitute the following:

(1) When $d < 0.4D$

$$R = \frac{2D^2}{\lambda}$$

"(2) When $d \geq 0.4D$

$$R = \frac{(D+d)^2}{4}$$

Subparagraph (g), seventh line: Delete "substitution" and substitute "substitution".

Page 68, paragraph 7, subparagraph (a), fourth line: Delete "and" after "spectrum".

Page 71, paragraph 4.1, second line: Delete "top" and substitute "tip".

Page 75/76:

Paragraph 6.1, third line: Delete "no" after "devices" and substitute "do".

Paragraph 6.2: In second line delete "unusal" and substitute "unusual". Also, in fourth line, delete "acutal" and substitute "actual".

Page 77:

Paragraph 4.2, third line: Delete "db" and substitute "dB".

Paragraph 4.3.2, fifth line: Delete "insets" and substitute "insects".

Paragraph 4.5: Delete "tripod/meter" and substitute "tripod 1 meter".

Page 79:

Paragraph 3, subparagraph (c), first line: Delete "Narrowband" and substitute "Narrow band".

Paragraph 4, subparagraph (b), first line: Delete "densitites" and substitute "densities".

Pages 79 and 80, paragraph 5.1.1: Delete, and substitute:

"5.1.1 If a 20-dB interfering signal-to-noise ratio was used the magnetic flux density recorded in step 4 (e) shall be reduced by 14 dB.

(a) Reduce by $\sqrt{\Delta f_v}$, where Δf_v is the 3-dB bandwidth of the measurement system (including the test sample and tunable voltmeter or EMI meter), when the bandwidth of the voltmeter or EMI meter is greater than that of the test sample (overall bandwidth of test sample and EMI meter or voltmeter is greater than 1 Hz). This final value shall be recorded at that frequency.

(b) Increase by $\sqrt{\frac{1}{\Delta f_v}}$ when the bandwidth of the measurement system is less than 1 Hz or when the test sample bandwidth is greater than that of the EMI meter or voltmeter. This final value shall be recorded and compared with the test limit."

Page 80:

Paragraph 5.1.2, second line: Delete "approxaiately" and substitute "approximately".

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Page 81/82:

In note delete "ysilds" and substitute "yields".
In figure title delete "30 kHz to 30 kHz" and substitute "30 Hz to 30 kHz".

Page 83, paragraph 3: Delete subparagraph (c) entirely.

Page 87/88, paragraph 3, subparagraph (c): Delete, and substitute:

"(c) Antennas (those specified for Electrical Field Measurements)."

Page 89:

Paragraph 2: Second line: Delete "compatible to" and substitute "compatible with".

Third line: Delete "Method RS02" and substitute "Method RS03".

Fourth and fifth lines: Delete "It is especially useful when broadband or spike radiated susceptibility tests are required."

Paragraph 3, subparagraph (e): Delete "30 KHz" and substitute "30 MHz".

Page 91, figure RS04-2: Add "Typical" as first word of figure title.

Page 93, figure RS04-4: Add "Note: Typical calibration. Each line must be individually calibrated."

2. Delete the following figures and substitute new figures attached (pages 7 through 12 of this notice).

<u>Figure</u>	<u>Page</u>
CS01-1	32
CS02-1	36
CS06-1	50
CS06-2	50
RE03-1	69
RE04-2	73/74
RS04-3	92

3. Retain this notice and insert before table of contents.

Custodians:

Army - EL

Navy - SH

Air Force - 11

Preparing activity:

Air Force - 11

Project No. EMCP-0002

Reviewer activities:

Army - MI, AV

Navy - AS, CS

Air Force - 11, 13, 15, 17, 19,

68, 69, 70, 71, 80,

82, 84

User activities:

Army - AV, AT, ME, WC, GL, MD