

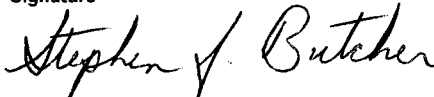
Form NTIA-44 (3/91)		U.S. Department of Commerce National Telecommunications and Information Administration		Classification UNCLASSIFIED		Control Number SPS-16654/1 ERP-1079/1					
CERTIFICATION OF SPECTRUM SUPPORT											
Recipient Agency Air Force		System AN/PRC-117G(V)(C), Harris RF-300M-MP Portable Manpack Radio Set				Stage of Review 4 – Operational					
Section 1: OPERATING CHARACTERISTICS FOR WHICH SUPPORT IS CERTIFIED											
Frequency (MHz)	Emission	Station Class	Power (W)	Operating Location							
30-30.56 32-33 34-35 36-37 38.25-39 40-42 46.6-47 49.6-50	8K00F1D 11K0F3E 16K0F3E 18K5F3E 22K0F3E 22K0F1D 25K0G1D 26K0F1D	MO FL	1-10	US&P							
138-144 148-149.9 150.05-150.8	8K00F1D 11K0F3E 16K0F3E 18K5F3E 22K0F3E 22K0F1D		1-10								
	6K00A3E 16K0A1D		4								
162.0125-173.2 173.4-174	8K00F1D 11K0F3E		1-10								
			4								
225-328.6	8K00F1D 11K0F3E 16K0F3E 18K5F3E 22K0F3E 22K0F1D	1-10									
	1M20G1D 1M20D1D	1-5									
	6K00A3E 16K0A1D	4									
243-270 (Receive)	2K40G1D 4K80G1D 22K0F1D 25K0F1D	UA	-----								
291-318 (Transmit)			2-20								
335.4-399.9	8K00F1D 11K0F3E 16K0F3E 18K5F3E 22K0F3E 22K0F1D	MO FL	1-10								
Downgrading Instructions		Classification UNCLASSIFIED			Page Number 1 of 3 pages						

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Frequency (MHz)	Emission	Station Class	Power (W)	Operating Location	
406.1-420	1M20G1D 1M20D1D	MO FL	1-5	US&P	
	6K00A3E 16K0A1D		4		
	8K00F1D 11K0F3E		1-10		
1370-1390	1M20G1D 1M20D1D 5M00G1D 5M00D1D		4		
		1-5			
1755-1850	1M20G1D 1M20D1D 5M00G1D 5M00D1D	1-5			
1227.6 (receive only) 1575.42 (receive only)	24M0G1D	UM	-----		
Section 2: SOURCE DOCUMENTS					
Docket Number	Description of Document			Dated	
SPS-16581/1 SPS-16625/1	Air Force Request for Stage 4 System Review NTIA Preliminary Assessment			June 27, 2008 August 12, 2008	
<p>The Spectrum Planning Subcommittee has reviewed this system under the provisions of Chapter 10 of the NTIA Manual, and recommends that:</p> <ol style="list-style-type: none"> 1. NTIA certify Stage 4 spectrum support for the AN/PRC-117G(V)(C), Harris RF-300M-MP Portable Manpack Radio Set, as specified in Section 1. 2. Air Force be aware that: <ol style="list-style-type: none"> a. in the bands 162-174 and 406.1-420 MHz, tactical communications are prohibited; b. not all emission designators can be used in all bands; emissions in each band must be limited as shown in Section 1; c. any use of the 162.0125-174 MHz and 406.1-420 MHz bands by the military services is limited to non-tactical or intrabase radio operations, in accordance with the channeling plan specified in Sections 4.3.7 and 4.3.9 of the NTIA Manual, as referenced in Footnote G5 to the National Table of Frequency Allocations; d. any tactical and training operations in non-Federal bands with the 30-88 MHz range within the US&P are to be conducted on an unprotected, non-interference basis in accordance with Section 7.15.3 of the NTIA Manual. 3. Air Force take all practical steps to protect the radio astronomy service from harmful interference in the band 1350-1400 MHz in accordance with Footnote US311 to the National Table of Frequency Allocation and the bands 322-328.6 and 1330-1400 MHz in accordance with Footnote US342 to the National Table of Frequency Allocation. 4. Air Force coordinate all frequency assignment actions for the bands 225-328.6 MHz and 335.4-399.9 MHz with the Military Assignment Group, in accordance with Section 1.3.2 of the NTIA Manual. 					
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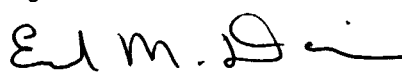
Section 3: SPS RECOMMENDATIONS

5. Air Force be aware that operation of this system will be subject to the provisions of Section 5.1.2 of the NTIA Manual regarding its lack of compliance with the following standards:
 - a. unwanted emission standards of Subsection 5.2.2.2 of the NTIA Manual for the use of the emissions 2K40G1D, 4K80G1D and 25K0F1D in the band 291-318 MHz;
 - b. unwanted emission standards of Subsection 5.3.5.2 (narrowband standard) of the NTIA Manual for the use of the emission 8K00F1D in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz;
 - c. spurious level standards of the Subsection 5.3.5.2 of the NTIA Manual for the use of the emissions 8K010F1D and 11K0F3E in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz;
 - d. receiver adjacent channel selectivity standards of the Subsection 5.3.5.2 of the NTIA Manual for the use of the digital receiver (emission 8K00F1D) in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz.
6. Air Force, if frequency availability dictates, use of the bands 162.0125-174 MHz and 406.1-420 MHz give preference in selecting frequencies to those channels designated "DOD" or "AGA" in accordance with Section 8.3.18 of the NTIA Manual.
7. Air Force ensure that this system cannot be configured to transmit in bands other than those in Section 1 above.
8. Air Force ensure that personnel are protected from radiation levels that exceed generally accepted exposure levels.

Name/Title of Recommending Official	Signature	Date
Stephen J. Butcher, SPS Chairman		NOV 03 2008

Section 4: NTIA CERTIFICATION

The Office of Spectrum Management certifies Stage 4 spectrum support for this system.
This office concurs with the SPS recommendations in Section 3.

Name/Title of Certifying Official	Signature	Date
Edward M. Davison Deputy Associate Administrator		NOV 03 2008
Distribution	Classification	Page Number
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MILITARY COMMUNICATIONS ELECTRONICS BOARD (MCEB)

EQUIPMENT FREQUENCY ALLOCATION GUIDANCE


Military Department Air Force, Army, Navy	Equipment AN/PRC-117(V) (C), Harris RF-300M-MP Portable Manpack Radio Set, Multi-band, Multi-mode	Stage 4-Operational
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Section 1: ENCLOSURES

Enclosure Number 1	Description J/F 12/9512	Dated 23 June 2008
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Section 2: OPERATING CHARACTERISTICS FOR WHICH SUPPORT IS CERTIFIED

Frequency (MHz)	Emission	Power (Max Mean)	Type of Service	Operating Location
30-30.56 32-33 34-35 36-37 38.25-39 40-42 46.6-47 49.6-50	8K00F1D 11K0F3E 16K0F3E 18K5F3E 22K0F1D 22K0F3E 25K0G1D 26K0F1D	10 W	Mobile	US&P
138-144 148-149.9 150.05-150.8	8K00F1D 11K0F3E 16K0F3E 18K5F3E 22K0F1D 22K0F3E			
	6K00A3E 16K0A1D	4 W		
162.0125-173.2 173.4-174	8K00F1D 11K0F3E	10 W		
225-328.6 335.4-399.9	8K00F1D 11K0F3E 16K0F3E 18K5F3E 22K0F1D 22K0F3E			
	1M20D1D 1M20G1D	5 W		
	6K00A3E 16K0A1D	4 W		

Steering Member ESG Working Group MCEB Frequency Panel	Signature 	Date DEC 03 2008	IRAC/SPS Number Doc. 36647/1 SPS-16654/1	Page 1 of 5
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Downgrading Instructions Classified by: NA Declassify on: NA	Distribution J-12 Holders	MCEB J-12 Number J/F 12/9512/1
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MILITARY COMMUNICATIONS ELECTRONICS BOARD (MCEB)

EQUIPMENT FREQUENCY ALLOCATION GUIDANCE

MCEB GUIDANCE	Equipment
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Section 2: OPERATING CHARACTERISTICS FOR WHICH SUPPORT IS CERTIFIED (continued)

Frequency (MHz)	Emission	Power (Max Mean)	Type of Service	Operating Location
243-270	2K40G1D 4K80G1D 22K0F1D 25K0F1D	NA (receive-only)	Mobile-Satellite	US&P
291-318		20 W		
406.1-420	8K00F1D 11K0F3E	10 W	Mobile	
1370-1390 1755-1850	1M20D1D 1M20G1D 5M00D1D 5M00G1D	5 W		
1227.6 1575.42	24M0G1D	NA (receive-only)	Radionavigation-Satellite	

Section 3: MCEB GUIDANCE

1. The enclosed application as described in Section 2 above is approved for operational use subject to the guidance below.
2. For the intended operation in the mobile, mobile-satellite, and radionavigation-satellite services, the subject equipment is in accordance with the US Table of Frequency Allocations, and with the ITU Table of Frequency Allocations in some ITU Regions.
3. Based on the information provided, the subject equipment complies with the
 - a. frequency tolerance requirements of NTIA Manual Section 5.2.1;
 - b. transmitter primary emission requirements of NTIA Manual Section 5.2.2.2, except as noted below;
 - c. transmitter harmonic level requirements of NTIA Manual Section 5.2.2.2;
 - d. transmitter spurious level requirements of NTIA Manual Section 5.2.2.2;
 - e. transmitter primary emission requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz), except as noted below;

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EQUIPMENT FREQUENCY ALLOCATION GUIDANCE

MCEB GUIDANCE

Equipment

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AN/PRC-117(V)(C), Harris RF-300M-MP
Portable Manpack Radio Set, Multi-band, Multi-mode

Section 3: MCEB GUIDANCE (continued)

f. transmitter harmonic level requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz);

g. transmitter frequency deviation requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz);

h. receiver spurious response attenuation requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz);

i. receiver adjacent channel selectivity requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz), except as noted below;

j. receiver intermodulation attenuation requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz);

k. receiver conducted spurious emissions requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz).

4. Continued compliance with the provisions of the standards cited in paragraphs 3a through 3k above is mandatory.

5. Based on the information provided, the subject equipment does not comply with the

a. transmitter primary emission requirements of NTIA Manual Section 5.2.2.2 for emissions 2K40G1D, 4K80G1D, and 25K0F1D;

b. transmitter primary emission requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz) for emission 8K00F1D;

c. transmitter spurious level requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz);

d. receiver adjacent channel selectivity requirements of NTIA Manual Section 5.3.5.2 (for operation in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz) for emission 8K00F1D.

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AN/PRC-117(V) (C), Harris RF-300M-MP
Portable Manpack Radio Set, Multi-band, Multi-mode

Section 3: MCEB GUIDANCE (continued)

6. In any instance of harmful interference caused by nonconformance with the provisions of the standards cited in paragraphs 5a through 5d above, the responsibility for eliminating the harmful interference normally shall rest with the agency operating in nonconformance.

7. Based on the information provided, the subject equipment does not comply with the harmonic level and spurious level requirements of MIL-STD-461F.

8. Frequency assignment requests must be submitted using Standard Frequency Action Format (SFAF) and coordinated with the cognizant area frequency coordinator in accordance with ACP 190 US SUPP-1 (C), Guide to Frequency Planning, prior to activation.

9. Coordination with NTIA/SPS has been completed and the following comments were received:

a. DOD be aware that:

1) in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz, tactical communications are prohibited;

2) not all emission designators can be used in all bands; emissions in each band must be limited as shown in Section 2;

3) any use of the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz by the military services is limited to non-tactical or intrabase radio operations, in accordance with the channeling plan specified in Sections 4.3.7 and 4.3.9 of the NTIA Manual, as referenced in Footnote G5 to the National Table of Frequency Allocations.

4) any tactical and training operations in non-Federal bands within the 30-88 MHz range within the US&P are to be conducted on an unprotected, non-interference basis in accordance with Section 7.15.3 of the NTIA Manual.

b. DOD take all practicable steps to protect the radio astronomy service from harmful interference in the band 1350-1400 MHz in accordance with Footnote US311 to the National Table of Frequency Allocations and the bands 322-328.6 MHz and 1330-1400 MHz in accordance with Footnote US342 to the National Table of Frequency Allocations.

c. DOD coordinate all frequency assignment actions for the bands 225-328.6 MHz and 335.4-399.9 MHz with the Military Assignment Group, in accordance with Section 1.3.2 of the NTIA Manual.

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Section 3: MCEB GUIDANCE (continued)

d. DOD be aware that operation of this system will be subject to the provisions of Section 5.1.2 of the NTIA Manual regarding its lack of compliance with the following standards:

1) unwanted emissions standards of Subsection 5.2.2.2 of the NTIA Manual for the use of the emissions 2K40G1D, 4K80G1D, and 25K0F1D in the band 291-318 MHz;

2) unwanted emissions standards of Subsection 5.3.5.2 (narrowband standard) of the NTIA Manual for the use of the emission 8K00F1D in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz;

3) spurious level standards of Subsection 5.3.5.2 of the NTIA Manual for the use of the emissions 8K00F1D and 11K0F3E in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz;

4) receiver adjacent channel selectivity standards of Subsection 5.3.5.2 of the NTIA Manual for the use of the digital receiver (emission 8K00F1D) in the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz.

e. DOD, if frequency availability dictates, use of the bands 162.0125-173.2 MHz, 173.4-174 MHz, and 406.1-420 MHz give preference in selecting frequencies to those channels designated "DOD" or "AGA" in accordance with Section 8.3.18 of the NTIA Manual.

f. DOD ensure that this system cannot be configured to transmit in bands other than those in Section 2 above.

g. DOD ensure that personnel are protected from radiation levels that exceed generally accepted exposure criteria.

10. Operational use within the appropriate theater commands outside the United States has not been approved. Approval for operational use in the intended deployment area requires appropriate COCOM's statement(s) that the subject system has been deemed frequency supportable.

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