

## **Summary of Changes**

### **Summary of Changes and Instructions**

#### **1.1 May/September 2009 Revision of the January 2008 Edition of the NTIA Manual**

The Cover Page and the Table of Contents were updated.

##### Preface

The introduction was revised and new holders and promulgation letters were added.

##### Chapter 1

Section 1.3.2, Bylaws, Article V – Substructure, Section 2.d, the text addressing the Military Assignment Group (MAG) was modified and additional text was added. (37322/1)

Section 1.3.2, Section 6, subparagraph 4 was revised under the SSS information. (37006/1)

Section 1.3.2, Section 7 updated the information for the EPS. (36931/1)

##### Chapter 2

Section 2.3.1, editorial corrections were made to this section. (37316/1)

Section 2.3.11 was deleted and marked reserved. (37048/1)

##### Chapter 3

Section 3.3.2, (b), a new subparagraph was added to this section. (37006/1)

##### Chapter 4

Section 4.1.3, the international portion of the allocation table was updated with information from the 2008 version of the ITU Regulations.

Section 4.1.3, updated the text for footnote US345 and added this footnote to the 401-402 MHz band. (37112/1)

Section 4.1.3, added NG186 to the 10.7 GHz band and added NG187 to the 11.7-12.2, 14-14.2, 14.47-14.5, GHz bands. (37319/1)

Section 4.1.3, the text for NG186 and NG187 was added to the footnotes. (37319/1)

Section 4.2.3, the first paragraph of this section was deleted and the last section of “1. Wide-Area” was deleted. (37321/1)

Section 4.2.4, the first paragraph of this section was deleted and the last section of “1. Local-Area” was deleted. (37321/1)

Section 4.3.11, the table for Medical Radiocommunication was updated. (36932/1)

Section 4.3.18, this new section titled “4400-4940 MHz Chanel Plan” was added to Chapter 4.

##### Chapter 5

Section 5.3.5.2, editorial updates were made under “Standards”, in the second sentence the references to TIA documents were updated. Under “Effective Dates” the dates were changed, under “Waviers” in (b) the tables referring to equipment procured prior to Jan 2006 were removed and the headings for the old tables were also deleted. (37108/1)

## SUM-2

Editorial corrections were made throughout this chapter to several equations that were corrected to read  $\leq$  instead of  $<$ .

Section 5.5.3, Criteria C, a new subparagraph 4.3 was added addressing systems in the radiolocation service. (37275/1)

Section 5.6.2 was revised adding some additional text. (37275/1)

### Chapter 6

Section 6.1.1, footnote 2 which referenced the term (RR) was removed since it duplicated text in the first paragraph.

Section 6.1.1, the definition for occupied bandwidth was updated. (37107/1)

Secton 6.6, a formating change was made moving the text for Section 6.6 up to page 6-37.

### Chapter 7

Part 7.1, text in this part was modified because of the addition of Section 7.5.9 “Federal Use of Medical Telemetry Devices in Certain Bands”. (37417)

Section 7.5.9, new section addressing “Federal Use of Medical Telemetry Devices in Certain Bands”. (37417)

Part 7.11, updated the name for the Air Force Research Laboratory/Phillips Research Site. (37103/1)

Part 7.11, updated the office code for the Gulf Area Frequency Coordinator (GAFC) 96CG/~~SCWF~~[SCXF](#). (37389/1)

Part 7.11, corrected a formating error in the last experimental site in Part 7.11.

Part 7.11, removed the CIA experimental station. (37144/1)

Parts 7.18-7.27 revised. Corrections were made to Part 7.19 through the end of Chapter 7. Corrected mistakes in the headings and text of Parts 7.19 and 7.20. These changes also affected other recently approved revisions to Parts 7.24 and 7.26. (36556/1)

Part 7.26, the current text was deleted and this Part was marked reserved. (36556/1)

### Chapter 8

Reformatted text starting on page 8-7 to the end of the chapter.

Section 8.2.41, paragraph 2 was modified due to changes in Chapter 10, the reference to Section 10.8.3A was updated to read 10.8.2A. (37171/1)

Section 8.2.47, new text was added for “Shared Federal/Non-Federal Radio Systems”. (37009/1)

Section 8.2.54, extended the termination date and added the Army MDA to this section.

2. Range safety operations are authorized in the 406.1-420 MHz band but limited to:

a. use of the frequency 416.5 MHz at Jonathan Dickinson Missile Tracking Annex, Jupiter, FL, Wallops Island, VA, and Cape Canaveral AFB, FL for support of the NASA Space Shuttle through ~~September 30~~[December 31, 2010](#)~~2014~~; and

b. use of the frequency 416.5 MHz at Pillar Point AFS, CA, Laguna, CA, Point Mugu, CA, and Vandenberg AFB, CA through December 31, ~~2008~~[2014](#). [The use of command destruct at the California locations is limited to the Army MDA program and any other use of the frequencies must be requested using the STA process in 8.3.31.](#) (37104/1)

Section 8.2.56, this new section titled ”Aeronautical Use by Mobile Stations of Frequencies in the Bands 162.05-173.2, 173.4-174, and 406.125-420 MHz on an Exceptional Basis” was added to the manual. (37053/1)

Section 8.3.15:

a. an editorial correction was made in the 8025-8400 MHz, AL, Fairbanks was corrected to read AK, Fairbank.

## SUM-3

- b. Added transmitter earth stations (20225-2110) for Goldstone (JWST) and Los Alamos and receiving stations (2200-2290) for Goldstone (JWST), Los Alamos, and Albuquerque. (37391/1)
- c. Added a receiving stations (25500-27000) for Goldstone (JWST). (37391/1)
- d. Added transmitter earth station (1761-1842) and receiver earth station (2200-2290) for Ft. Belvoir. (37249/1)
- e. Several corrections were made to the coordination distances and and the coordinates were corrected for two receive stations. (37146/1)

Section 8.3.18, this section was deleted and marked as Reserved. (37321/1)

Section 8.3.31, 7.c., editorial correction, the minimum data elements of paragraph 5." was corrected to read, "...paragraph 6."

## Chapter 9

Part 9.4, 2, c (5) Classified Data Fields, removed \*CLD and added \*CLC/\*CLS (Circuit Remarks \*CLC or \*CLSD). (36970/1)

Section 9.8.1, removed \*PRC from the 9.8.1 table. (36933/1)

Section 9.8.1, removed \*CLD and added \*CLC/\*CLS to the tabled. (36970/1)

Section 9.8.2, 1. SER--Applicant Serial Number (10 Characters-1 Occurrence), subparagraph b and the example in this section were modified. (37051/1)

Section 9.8.2, 39, Circuit Remarks (REM) (40 Characters-30 Occurrences) removed \*CLD and added \*CLC/\*CLS to the tabled. (36970/1)

Section 9.8.2, 39.e (6) updated the text related to the removal of CLD and addition of \*CLC/\*CLS. (36970/1)

Section 9.8.2, 39.f (6) updated the text related to the removal of CLD and addition of \*CLC/\*CLS. (36970/1)

Section 9.8.2, 39.i (6) updated the text related to the removal of CLD and addition of \*CLC/\*CLS. (36970/1)

Section 9.8.2, 39.j (2) corrected the example: \*AGN,FLL=XXX,;FLT=XXX,TSV=XXXXX-; [REMARKS].

Section 9.8.2, 39.k (1 and examples) added M013 through M018. (36933/1)

Section 9.8.2, 39.k, added (3) M018 Each entry of Pre-coordination Data. (36933/1)

Section 9.8.2, 39.o (6 and the example) updated the text related to the removal of CLD and addition of \*CLC/\*CLS. (36970/1)

Section 9.8.2, 39.q.(h) updated the text related to the removal of CLD and addition of \*CLC/\*CLS.

Section 9.8.2, 39.u, Part 2 – Agency Specific Function Identifiers; the reference in “Other Operations -- Used in supporting those functions not covered in one of the categories listed herein. (Note: See subparagraph (8) (kj) above for additional instructions.)” was modified (37210/1)

Section 9.8.2.39. cc, the following changes were made:

*cc. Classified Data Fields (\*~~CLD~~CLC or \*CLS).*

(1) Theseis fields isare used to identify those data fields in an assignment that are classified confidential or secret. One or both of theseThis entries shall-must be included in-on all classified applications to indicate the classified information.

(2) Enter the field code REMnn followed by a space. Following the space, enter the code \*~~CLD~~ to indicate those data fields that are classified Confidential or \*CLS to indicate those data fields that are classified Secret followed by a comma. Immediately after the comma, enter the mnemonic(s) (and occurrence number of multiple occurring fields) of the classified data field(s). If more than one mnemonic is entered, separate each with a comma. You must enter all classified data fields that are confidential in \*CLC and all classified data fields that are Secret in \*CLS.

(3) Use as many entries of \*CLC or \*~~CLSD~~ REM lines as necessary to list all classified data fields.

## SUM-4

(4) The entry for Supplementary Details will always be SUP (See paragraph 80, subparagraph j, of this section.).

*Example:* REM09 \*CL~~CD~~,EMS01,PWR01,EMS02,PWR02,SUP  
REM10 \*CLS,XAD01, RAD03, REM11

Section 9.8.2, 39.dd (2) updated the text related to the removal of CLD and addition of \*CLC/\*CLS. (36970/1)

Section 9.8.2, 39.gg, was deleted. (36933/1)

### Chapter 10

A total rewrite was done to this chapter to include the changes for the EL-CID project. (37171/1)

### Annex A

Annex A was revised writing the Notes in a consistent manner. Editorial corrections were also made to this annex. (37271/1)

Part A.6, new special notes S914, S915, S916, and S917 were added to this annex. (36969/1) (37052/1) (37105/1)

Part A.4, removed M016 and added M018 to this section. (36933/1)

### Annex D

Annex D, updated the office code for the Gulf Area Frequency Coordinator (GAFC) 96CG/~~SCWF~~SCXF in Table 3.

### Annex G

Part G.1, modified the Department of Interior abbreviations. (37248/1)

Part G.1, added new abbreviation for Treasury's Troubled Asset Relief Program (TARP) (37106/1)

Part G.1, modified the abbreviation for Treasury's Alcohol, Tobacco, Firearms and Explosives. (36969/1)

Part G.1, modified the Department of Transportation abbreviations. (36185/1)

Part G.1, modified the NASA abbreviations. (37415/1)

Part G.5, a large number of the manufacture codes were deleted. (37340/1)

### Annex H

Editorial corrections were made on page H-10, Table 5, 8 MHz/Ship column. Channel 3: 8277.5.5 corrected to read 8277.5 and Channel 5: 8378.5.5 corrected to read 8378.5.

Editorial corrections were made on page H-11, Table 5, channel 14, (last column) corrected to read 8383 vice 8423. Also channel 18 (last column) corrected to read 8385 vice 8395.

Formating corrections were made to pages H-16 through H-17.

### Annex J

Annex J, corrected the footnote number references in this annex. (33880/1) (33951/1)

J.3.1, corrected the text in this paragraph. (33880/1) (33951/1)

J.5, corrected the subscript in the symbols in this part. (33880/1) (33951/1)

J.5, Table A, corrected the subscript and superscript numbers in the formulas. (33880/1) (33951/1)

## Annex M

Section M.2.1.E, corrections were made to subparagraph 2. (37109/1)

2. Narrowband (138-150.8, 162-174 and 406.1-420 MHz Bands)

a. Transmitter and Receiver Measurement Methods (referenced from Section 5.3.5.2): ~~As adopted by NTIA, the~~ The measurement methods to be used are as given in the Telecommunications Industries Association standard TIA/EIA-603-~~B-C~~ for narrowband analog ~~emission~~ equipment, and ~~Telecommunications Systems Bulletin TSB-TIA-102.CAAA-A-B~~ for narrowband digital ~~emission~~ equipment. Where these methods are not specified for a particular system type, appropriate test procedures should be applied.

~~b.—The present EIA measurement methods were written for analog systems. Some of these methods are not appropriate for digital systems. Appropriate analog-to-digital or digital-to-analog test sets will have to be used.~~

The Summary of Changes and the Index were updated.

### 1.1.1 Instructions

**Effected Pages:** Cover Page, Table of Contents, Preface i through iii, 1-9, 1-14, 2.4, 2-8, 3-3 through 3-16, 4 3 through 4-216, 5-4, 5-5-, 5-9 through 5-12, 5-17 through 5-40, 5-41, 6-1, 6-11, 6-24, 6-37, 6-38, 7-13, 7-14, 7-18, 7-21, 7-31 through 7-32, 8-7 through the end of this chapter, 9-7 through 9-8, 9-13 through 9-18, 9-43 through 9-44, 9-47 through 9-84, all of Chapter 10, all of Annex A, D-6, G-8, G-10, G-29 through G-50, H-5, H-6, H-10, H-11, H-16, H-17, all of Annex J, M-3, all of the Summary and the Index.

**Replace Pages:** Cover Page, Table of Contents, Preface i through iv, 1-7 through 1-14, 2-3 through 2-4, 2-7 through 2-10, 3-5 through 3-16, 4-3 through 4-216, 5-3 through 5-6, 5-9 through 5-12, 5-17 through 5-40, 6-1 through 6-2, 6-11 through 6-12, 6-23 through 6-24, 6-35 through 6-38, 7-7 through 7-22, 7-29 through 7-32, 8-7 through 8-78, 9-7 through 9-8, 9-13 through 9-18, 9-43 through 9-44, 9-47 through 9-84, all of Chapter 10, all of Annex A, D-5 through D-6, G-7 through G-18, G-27 through G-38, H-9 through H-12, H-15 through H-18, all of Annex J, M-3 through M-4, all of the Summary and the Index.

## 1.2 January 2009 Revision of the January 2008 Edition of the NTIA Manual

The Cover Page and the Table of Contents were updated.

### Preface

The introduction was revised and new holders and promulgation letters were added.

### Chapter 4

Section 4.1.3, the following footnotes were modified:

US216, a formatting correction was made to this footnote.

US229 was modified changing the responsible agency to the Air Force Space Surveillance System (AFSSS). (36531/1)

US323 and US324, editorial corrections were made to these footnotes.

US378, a formatting correction was made to this footnote.

## Chapter 5

Section 5.5.1, editorial, moved Figure 2 text under the diagram on page 5-28.

## Chapter 6

Section 6.1.3, an editorial correction was made to the station definition for VA, Land Earth Station.

## Chapter 7

Part 7.11, removed the Air Force Frank J Seiler Research Laboratory and the Navy's Naval Surface Weapons Center, White Oak, sites for this section. The Air Force Pacific Alaska Range Complex (PARC) was added. (36715/1) (36831/1)

Section 7.17.1, added USPACOM information to the table for the state of Alaska. (36831/1)

## Chapter 8

Section 8.2.24, 5(a) removed an unneeded "and" from the sentence.

Section 8.2.29, 3 removed an unneeded "-" from the word "established" in the second sentence.

Section 8.2.55, added this new section. (36832/1)

Section 8.3.6, revised the text for the use of hydrologic channels. (36608/1)

Section 8.3.15, the following locations were added to the List of Coordinated Earth Station Table:

- a. Added transmitter earth stations (1766-1839 MHz) and receiving earth stations (2200-2290 MHz) for Atlanta, GA. (36612/1)
- b. Added transmitter earth stations (7145-7190 MHz) and receiving stations (2290-2300 MHz) for Goldstone, CA (DSS-14) (36470/1)

Section 8.3.31, revised the text in this section. (36852/1)

## Chapter 9

Section 9.8.2, minor edits were made to sub-paragraph 34. (36674/1)

## Chapter 10

Section 10.8.7, added new text to the end of paragraph 24, item 21. (36832/1)

Part 10.9, editorial corrections were made to this Part.

## Annex A

Section A.6, special notes S402, S912 and S913 were added to this section. (37009/1) (36715/1)

## Annex M

The outline numbering of Annex M was changed to match the other parts of the manual. (36832/1)

Section M.2.1 subparagraph e (2) was revised updating the reference documents listed in this paragraph. (37039/1) (34136/1)

Section M.2.1, added new subparagraph F, "Wideband and Narrowband Emission Level and Temporal Measurements in the Navstar Global Positioning System Bands." (36832/1)

### 1.2.1 Instructions

**Effected Pages:** Cover Page, Table of Contents, Preface i through iii, 4-133, 4-136, 4-142, 4-149, 5-28, 5-29, 6-31, 7-13, 7-18, 7-19, 7-29, 8-45, 8-47, 8-60, 8-62, 8-64, 8-77, 8-78, 9-38, 10-16, 10-23, A-22, M-1, M-3, M-4, the Summary of Changes and the Index.

**Replace Pages:** Cover Page, Table of Contents, Preface i through iv, 4-133 through 4-136, 4-141 through 4-142, 4-149 through 4-150, 5-27 through 5-30, 6-31 through 6-32, 7-13 through 7-14, 7-17 through 7-20, 7-29 through 7-30, 8-45 through 8-52, 8-59 through 8-66, 8-77 through 8-78, 9-37 through 9-38, 10-15 through 10-28, A-21 through A-22, Annex M, the Summary of Changes and the Index.

### 1.3 September 2008 Revision of the January 2008 Edition of the NTIA Manual

The Cover Page and the Table of Contents was updated.

#### Preface

The introduction was revised and new holders and promulgation letters were added to the preface.

#### Chapter 3

Part 3.2 was revised with current ITU information. (36615/1)

#### Chapter 4

Section 4.1.1, updated the information related to the ITU Regulations.

Section 4.1.3, in the list of international footnotes, revised footnotes 5.155, 5.237, 5.339, 5.438, 5.462A, 5.469A, and 5.476A.

In the list of United States (US) footnotes added footnote US1; revised footnotes US7, US11, US81, US90, US93, US99, US116, US117, US201, US216, US217, US222, US229, US230, US247, US251, US252, US259, US262, US265, US267, US273, US285, US290, US294, US299, US301, US307, US308, US309, US310, US311, US315, US316, US323, US324, US334, US335, US337, US338, US342, US344, US346, US348, US351, US353, US354, US355, US359, US360, US362, US366, US368, US378, US381, US388, US396, US397, US399, and US401; and removed footnotes US215, US302, US321, and US387.

In the list of non-Federal Government (NG) added footnotes NG1 and NG30; revised footnotes NG28, NG51, NG53, NG56, NG66, NG112, NG124, NG141, NG143, NG144, NG147, NG149, NG155, NG158, NG159, NG160, NG163, NG167, NG172, NG173, NG175, NG184 and removed footnote NG31.

In the list of Federal Government (G) footnotes revised G2, G6, and G133; removed G31 and G106; and added G127. New footnote G134 was also added to this section. (36557/1)

Section 4.2.2, modified the title and text in this section (removed frequencies 1720 and 1740 MHz).

Section 4.3.5, an editorial correction was made to the DME/TACAN table (pg. 4-171). The Ground Reply frequency 21Y was corrected to read 1108 vice 982 MHz.

#### Chapter 6

## SUM-8

Section 6.1.1, Special Terms (General), added a new definition for Adaptive System (36694/1), Cognitive Radio System and Software Defined Radio. (36750/1)

Part 6.2, Corrected the superscript formatting for K = kilo ( $10^3$ ), M = Mega ( $10^6$ ), G = giga ( $10^9$ ), T = tera ( $10^{12}$ ).

Part 6.6 was revised with current ITU information. (36614/1)

### Chapter 7

Part 7.3, "Use of Frequencies for National Security and Emergency Preparedness (NS/EP)" was completely revised. (36348/2)

Part 7.11, the information for the Air Force Aeronautical Systems Center (AFMC) was revised. (36437/1)

Part 7.11, the Agriculture site was removed and the Air Force Phillips Laboratory site was revised. (36554/1)

Part 7.24, the current text was deleted and replaced with a new Part 7.24 titled "FEDERAL GOVERNMENT AGENCIES AS END USERS OF FCC LICENSED COMMERCIAL SERVICES".

### Chapter 8

Section 8.1.2, corrected the reference to Public Law 87-975 to read Public Law 87-795 on page 8-3.

Section 8.2.5, added a new section titled "Withholding Funds Pending Availability of Frequency Support". (36665/1)

Section 8.2.49 was deleted and marked as "Reserved".

Section 8.3.15 (Table), added Navy Earth Station data for the Naval Air Warfare Center (NAWC) and John Hopkins University, Applied Physics Laboratory (JHU/APL) Earth Station located at Laurel, MD. (36438/1)

Section 8.3.15 (Table) added contour data for the Air Force Trailblazer Micro-Satellite and PnPSat Earth Station Coordination Contours for Kwajalein, Republic of the Marshall Islands (36555/1) and Commerce Jason-2 DORIS Transmitting Earth Station Coordination Contours for Richmond, FL; Kamuela, HI; Hawaii National Park, HI; Ahua Kilauea, HI; Sandhill Kilauea, HI; Fairbanks, AK; and Guam Seismic Observatory, GUM. (36555/1)

Part 8.4 is a new addition to the manual titled "Cognitive Radio System and Software Defined Radio". (36750/1)

### Chapter 9

Section 9.8.1, revised the Index of Field Codes Table. (36296/1)

Section 9.8.2, (16), revised Pulse emissions L - Modulated in width or duration and M - Modulated in position or phase. (36440/1)

Section 9.8.2, minor edits were made to sub-paragraphs 24, 25, 33 and 34. (36674/1)

Section 9.8.2, 39.k, editorial correction on page 9-51.

Section 9.8.2, 39.m(6)(a), updated the list of frequencies and the footnotes. (36556/1)

Section 9.8.2, 39.u(2)(a), removed the frequency bands 806.0 - 824.0 MHz, 851.0 - 869.0 MHz, 896.0 - 901.0 MHz, and deleted the footnote, "\*\*\* Limited exclusively to the Specialized Mobile Radio (SMR) service (see 8.2.49)".

### Annex A

A.6 Special Notes, added new notes S908, S909, S910 and S911. (36609/1) (36469/1)

## SUM-9

### Annex B

Corrected the Power Flux-Density Limits Table on page B-8.

### Annex G

All the Part headings were revised in Annex G. (36611/1)

Part G.1, revised some of the Department of Interior information. (36559/1)

Part G-1 added a new bureau abbreviation under the Department of Commerce. (36469/1)

Part G.1, editorial corrections were made to Navy information on page G-9.

Part G.5, added abbreviations BDW and ICX. (36610/1)

Part G.5, added several new Manufacturer Codes. (36469/1)

### Annex H

Page H-8, updated the ITU references on this page. (36613/1)

Some formatting changes were made throughout Annex H.

### 1.3.1 Instructions

**Effected Pages:** Cover Page, Table of Contents, Preface i through iii, 3-2, 3-3, 3-4, All of Chapter 4, 6-1, 6-4, 6-15, 6-31, 6-35, 6-36, 6-37, 6-38, 7-1, 7-2, 7-3, 7-4, 7-5, 7-14, 7-15, 7-32, 8-3, 8-5, 8-6, 8-43, 8-61, 8-62, 8-66, 8-78, 9-14, 9-23, 9-30, 9-31, 9-38, 9-51, 9-52, 9-63, 9-65, 9-66, 10-3, 10-4, 10-28, A-22, B-8, G-1, G-2, G-8, G-11, G-16, G-28 through G-48, all of Annex H, the Summary of Changes and the Index.

**Replace Pages:** Cover Page, Table of Contents, Preface i through iv, 3-1 through 3-6, All of Chapter 4, 6-1 through 6-4, 6-15 through 6-16, 6-31 through 6-32, 6-35 through 6-38, All of Chapter 7, 8-3 through 8-6, 8-43 through 8-52, 8-61 through 8-66, 8-77 through 8-78, 9-13 through 9-14, 9-23 through 9-24, 9-29 through 9-32, 9-37 through 9-38, 9-51 through 9-52, 9-63 through 9-66, 10-3 through 10-18, 10-27 through 10-28, A-21 through A-22, B-7 through B-8, G-1 through G-12, G-15 through G-16, G-27 through G-50, All of Annex H, the Summary of Changes and the Index.

### 1.4 May 2008 Revision of the January 2008 Edition of the NTIA Manual

The Cover Page and the Table of Contents will be updated.

#### Preface

The introduction was revised and new holders and promulgation letters were added.

#### Chapter 1

Section 1.3, Section 5, the Radio Conference Subcommittee text was revised. (36376/1)

#### Chapter 4

Section 4.1.3, the formatting of footnote **5.138** was corrected.

Section 4.1.3, in US216 “MHz” was added after 468.19688.

Section 4.1.3, in US294 the reference was corrected to read Chapter 8 instead of Chapter 7. (36387/1)

Sections 4.2.3 and 4.2.4, editorial corrections were made to these sections. (36400/1)

Section 4.3.7,(2)(a) was revised correcting the formatting in the fourth sentence.

## Chapter 5

Section 5.3.5.1 was revised correcting the header spacing.

Sections 5.5.2, 5.5.3, and 5.5.5 were revised correcting the formula

$P_t = P_p + 10 \log(N \times t) + 10 \log(PRR) - PG - 10$ . The text  $N_t$  was changed to  $(N \times t)$ .

## Chapter 6

Section 6.1.1, the Deep Space distances equation was corrected to read  $2 \times 10^6$  kilometers instead of  $2 \times 10^6$  kilometers.

Sections 6.1.2 and 6.1.3 were revised adding four station classes (E1 through E4) for Earth Exploration-Satellite (active sensor) Space Stations and Space Research (active sensor) Space Stations. (35932/1)

## Chapter 8

Section 8.1.2 was revised correcting Public Law 87-975 to read Public Law 87-795 and a related information footnote was added.

Section 8.2.6 (2), the spelling of “van-mounted” was corrected.

Section 8.2.28 was rewritten to provide current guidance concerning radio frequency electromagnetic field safety and protection. (36361/1)

Table 8.2.36, major revisions were made to this table. (36322/1)

Section 8.3.11, the reference to Note 141 was corrected to read Note S141.

## Chapter 9

Section 9.8.1 was revised adding new field codes TRN and PRD to the Index of Field Codes. (36296/1)

Section 9.8.2, 15, Station Class (STC) and Section 9.8.2, 39, Circuit Remarks (REM) was revised. These changes clarify the use of FL and MO station classes and require the use of altitude on station classes using aircraft. The existing FAA and DOD flight level formats will be used for AAG and MAG bands, while the M014 format will be used for all other bands. (36214/1)

Section 9.8.2, 16 was revised. (36440/1)

Section 9.8.2 (39.b.5), the spacing in the example was corrected.

Section 9.8.2 (39.f.6), the spacing in the example was corrected.

Section 9.8.2, General, added new text “6. For commercial radars the Manufacturer Code is required to be entered for the first occurrence of \*EQT and \*EQR only.” (36165/1)

Section 9.8.2 (79.h-j), the formatting of these paragraphs were modified.

Section 9.10, the abbreviation for Action Number (ACN) was corrected.

## Annex A

Part A.6, a stray mark in the text of S297 was removed.

Part A.6, corrected the references in footnotes S355 and S356. (36400/1)

Part A.6, deleted footnotes S872 and added S401, S905, S906 and S907. (36186/1)

Part A.6, added new footnotes S891 through S899 for FCC satellite systems. (36321/1)

Part A.6, formatting corrected between footnotes S698 and S700.

## Annex D

Table 3 was revised updating the email address for the Army Frequency Management Office Continental U.S. (AFMO CONUS). (36295/1)

## Annex G

Part G.1 was revised updating the U.S. Navy/Marine Corps information.

Part G.1.1, added “NON-GOVERNMENT RECORDS (70/80/90 GHz) NGR”. (36320/1)

## Annex H

Formatting corrections were made on pages H-5 and H-6.

### 1.4.1 Instructions

**Effected Pages:** Cover Page, Table of Contents, Preface i through iii, 1-13 through 1-14, 4-75, 4-134, 4-139, 4-149, 4-164, 4-165, 4-178, 5-18, 5-31, 5-33, 5-38, 6-4, 6-21, 6-24, 6-27, 8-2, 8-6, 8-17, 8-51, 9-19 through 9-20, 9-23, 9-45, 9-49 through 9-51, 9-55, 9-85, A-13, A-15, A-12, A-17, A-22, D-5, G-6 through G-12, H-5, H-6, the Summary and the Index.

**Replace Pages:** Cover Page, Table of Contents, Preface i through iv, 1-13 through 1-14, 4-75 through 4-76, 4-133 through 4-134, 4-139 through 4-140, 4-149 through 4-150, 4-163 through 4-166, 4-177 through 4-178, 5-17 through 5-18, 5-31 through 5-38, 6-3 through 6-4, 6-21 through 6-32, 8-1 through 8-2, 8-5 through 8-6, 8-17 through 8-58, 9-19 through 9-24, 9-45 through 9-46, 9-49 through 9-94, A-11 through 18, A-21 through A-22, D-5 through D-6, G-5 through G-12, H-5 through H-6, the Summary, and the Index.

### 1.5 January 2008 Edition of the NTIA Manual

The font was changed from CG Times to Times New Roman throughout the manual, except for the allocation table, which continues to use Arial Narrow.

The terms government and non-Government were revised to read Federal and non-Federal in many places in the NTIA Manual. In areas of the manual that reference text from other documents these changes were not made.

Cover Page, Table of Contents and the Preface, these sections of the manual were updated.

## Chapter 1

Section 1.3.2 subsection 3, the last sentence in the first paragraph was rewritten.

Section 1.3.2, “ByLaws”, in this section the articles “Conduct of Work” and “Procedure and Voting” were both listed as Article VII. The article “Procedure and Voting” was renumbered as Article VIII and the remaining articles were renumbered.

## Chapter 3

Section 3.9.9, the text in this section was replaced.

Section 3.9.11, modified the text replacing Treasury with Homeland Security.

Section 3.9.12, modified the text related to CMERAR and other editorial changes.

#### Chapter 4

Section 4.1.3, changes were made to the following footnotes:

Deleted US223

Modified G133

Editorial corrections were made to US222, US342 and US362

Sections 4.2.3 and 4.2.4 were previously marked as Reserved, these sections were removed and the following section was renumbered.

Section 4.3.7 was revised.

#### Chapter 5

Section 5.2.1, Table 5.2.1 “Table of Frequency Tolerances”, Note (e), changed 1630 kHz to 1610 kHz.

Section 5.6.2, corrected an error in the “Unwanted Emission Mask” formulas.

#### Chapter 7

The “Part” and “Section” numbering for all of this chapter was corrected.

Part 7.11, updated the Air Force, Space and Missile Systems Center and NASA information.

Part 7.27, added this new part titled “Use of Electronic Countermeasures/Equipment In Response To Radio-Controlled Improvised Explosive Devices”.

#### Chapter 8

Section 8.2.41, added this new section titled “Space Systems Using Necessary Bandwidths Greater Than 5 MHz for Transmissions from Space in the Band 2200-2290 MHz”.

#### Chapter 9

Section 9.8.1, added gg to the Table. Index of Field Codes

Section 9.8.2, added subparagraph 39 (U)

Part 1, updated the text for:

MISC (Miscellaneous) and SPECIAL PROJECTS

added Short Term Incident Response

Part 2, Updated the text for:

OTHER OPERATION

SHIP/Shore OPERATIONS

CAP was modified to AFAUX/CAP

Added new text for:

WIDEBAND GLOBAL SATCOM

Replaced the definition for CAP and added a definition for AFAUX/CAP

39. Circuit Remarks (REM) (40 Characters-30 Occurrences)

Added gg. Pre-coordination Data (\*PRC)

## Chapter 10

Section 10.8.3A, added this new section to the manual.

### Annex A

Changes were made to the following footnotes.

- Added S-Notes 900 – 904

- Modified S862

- Modified S264 replacing CINCPAC with PACOM

- Deleted S846

### Annex G

Part 1, Revised the formatting of the table for “Agency, Bureau, and Other Organizational Abbreviations”.

Part 1, removed the Interstate Commerce Commission and updated the Treasury text.

Part 3, updated the text for the Coast Guard Areas and Districts.

- Deleted the CAP text and related figures, renumbered the figures following the deleted figure.

Part 5, added CDS – CubicDefense Systems to the list of abbreviations.

### **1.5.1 Instructions**

The January 2008 Edition replaces in its entirety the May 2003 Edition and all revisions.

**(Last Page in this Section)**