

# Summary of Changes

## Summary of Changes and Instructions

### 1.1 September 2017 Revision of the May 2013 Edition

Manual Section	Brief Description	IRAC Doc #
1.2.1	Editorial, replacing organization chart.	Editorial
1.3.2	Modified Article IV, Section 1, of IRAC bylaws to add Agency Vice-Chairperson as an IRAC officer and to authorize naming Vice-Conveners to ad hoc groups, if necessary.	Doc. 41565/2
1.3.2	Modified Article V, Section 5, of IRAC bylaws to update functions of the Radio Conference Subcommittee.	Doc. 41817/2
1.3.2	Modified Article III, Section 1, Para. a., to add Food and Drug Administration as observer.	Doc. 41788/2
1.3.2	Modified Article III, Section 1, Paras. d., f., and g. of IRAC bylaws to address meeting participation and requests to join subcommittees and groups.	Doc. 41709/1
4.1.3	Modified the Table of Frequency Allocations to reflect changes codified in the Oct. 1, 2016 version of Sec. 2.106 of the print edition of Title 47 of the Code of Federal Regulations (47 CFR 2.106).	Editorial
4.3.5 8.2.27 9.2.1 9.3.1 9.14 Annex A Annex F	Modified to reflect (1) Aeronautical Advisory Group and Military Advisory Group name changes in IRAC bylaws, and (2) adjustments to processing of frequency assignments due to evolving technologies.	Doc. 43227/1 Editorial
4.3.9	Modified channeling plan for assignments in 406.1-420 MHz to enable 6.25 kHz channels.	Doc. 42090/2
4.3.17	MILDEP revision of the Plan for JTIDS TDMA Waveform Systems.	Doc. 41969/1
5.3.9	Modification addressing transmitter data format in EL-CID for telemetry systems.	Doc. 43183/1
5.3.3.3 (10)	Modification to add a new standard for small parabolic and flat panel antennas used in the 4.4-4.94 GHz band.	Doc. 42188/1
5.3.3 5.3.3.4 10.8.6	Modification of transmitter standards in Section 5.3.3, interference analysis in Section 5.3.3.4, and required transmitter data in Section 10.8.6.	Doc. 41673/2
5.2.1 5.3.6.4 K.4	Modification of Sections 5.2, 5.3.6.4, and Annex K (K.4).	Doc. 41470/1
5.5.4 5.5.8	Modification of Section 5.5.4 adding Criteria A to the 40 dB bandwidth equations and correcting references to FCC regulations for commercial radar systems in Section 5.5.8.	Doc. 41542/1
5.5.7.1 5.5.7.2 5.5.7.3 5.5.7.4	Modifications to Radar Spectrum Engineering Criteria (RSEC) data.	Doc. 43233/1
5.3.11 M.2.1.5	Provisional spectrum standard for 6.25 kHz federal land mobile radio equipment.	Doc. 41746/2
7.3.8	Modification of Section 7.3.8 Subparagraph 2, Shared Resources (SHARES) High Frequency Radio Program.	Doc. 42245/1
7.25	Modification of Section 7.25 regarding use of electronic attack and electronic countermeasures and equipment.	Doc. 43306/1
8 9 Annex A Annex D Annex G	Modifications addressing the FAA WebFCR Portal.	Doc. 41702/1
8.2.47.d	Update of the example for REM07.	Doc. 41860/1

<b>Manual Section</b>	<b>Brief Description</b>	<b>IRAC Doc #</b>
8.3.9.1.b	Modification of authorized agency in Section 8.3.9.1.b.	Doc. 42207/1
8.3.15	Addition of coordination contours for DOC (NOAA)	Doc. 41545/1
8.3.15	Addition of coordination contours for Air Force transmitting and receiving Earth stations.	Doc. 41546/1
8.3.15	Addition of coordination contours for NASA transmitting and receiving Earth stations.	Doc. 41547/1
8.3.15	Addition of coordination contours for NASA transmitting and receiving Earth stations.	Doc. 41855/1
8.3.15	Addition of coordination contours for Air Force transmitting and receiving Earth stations.	Doc. 41856/1
8.3.15	Addition of coordination contours for Air Force USMSE Satellite System.	Doc. 42211/1
8.3.15	Addition of coordination contours for NASA Pasadena, CA – ASTERIA CubeSat.	Doc. 42213/1
8.3.15	Addition of coordination contours for Commerce JPSS.	Doc. 42214/1
8.3.15	Addition of coordination contours for Air Force MC3.	Doc. 42215/1
8.3.15	Addition of coordination contours for Commerce COSMIC-2.	Doc. 42216/1
8.3.15	Addition of coordination contours for Air Force P78-2 Space Vehicle.	Doc. 43333/1
8.3.15	Addition of coordination contours for the NASA’s Morehead, KY Earth station.	Doc. 43334/1
8.3.15	Addition of coordination contours for the Air Force Remote Tracking Station Block Change (RBC).	Doc. 43335/1
8.3.15	Addition of coordination contours for the Air Force AN/FRC-178 ground antenna station.	Doc. 43336/1
8.3.15	Addition of coordination contours for Air Force Advanced Miniaturized Data Acquisition System (AMDAS).	Doc. 43337/1
8.3.18	Modification of Section on coordination with or notification to non-federal advanced wireless service licensees of changes involving federal satellite Earth stations operating in the 1761-1780 MHz Band.	Doc. 43201/1
9.3.1	Modification of AAG and MAG group information.	Doc. 43227/1
9.7.1	Modification allowing agencies to change classification of assignments.	Doc. 43332/1
9.8.2.15 9.8.2.39.j	Addition of station classes and flight level information.	Doc. 43149/1
9.8.2.39.u	Addition of two general function identifiers.	Doc. 41931/1
9.8.2.15	Modification of Section 9.8.2.15.39.j and 39.k.	Doc. 41912/1
9.8.2.15 A.6	Modification of Section 9.8.2.15.39.j.(3) replacing the term “Nanosat” with “smaller satellite”. Also modified is special note S945.	Doc. 43368/1
A.1 A.6	Modification of notes C019, S361, and S946.	Doc. 43265/1
A.1	Modification of Chapters 8 and 9 and Annexes A, D, and G addressing the FAA WebFCR Portal.	Doc. 41702/1
A.1	Modification of Coordination Note 89 in Annex A.	Doc. 42209/1
A.6	Addition of Special Notes 955-959 to Section A.6 to support NASA operations.	Doc. 42085/1
A.6	Addition of Special Notes 953 and 954 in Section A.6 to support NASA Operations.	Doc. 41750/1
A.6	Addition of Army Special Note 407 to Annex A.	Doc. 42210/1
A.6	Addition of Special Note S952 to Section A.6 supporting the Morelos 3 satellite.	Doc. 41687/1
D	Modification of Chapters 8 and 9 and Annexes A, D, and G addressing the FAA WebFCR Portal.	Doc. 41702/1
D	Modification of the text in Table 3.	Doc. 42208/1
G.1	Modification of the Dept. of Commerce abbreviations in Section G.1.	Doc. 42084/1
G.1	Modification of Dept. of Interior abbreviation codes in Section G.1.	Doc. 41932/1
G.3	Modification of Chapters 8 and 9 and Annexes A, D, and G addressing the FAA WebFCR Portal.	Doc. 41702/1
G.4	Addition of two common abbreviations.	Doc. 41911/1
G.5	Addition of new manufacturer codes.	Doc. 41997/1

<b>Manual Section</b>	<b>Brief Description</b>	<b>IRAC Doc #</b>
K	Modification of Section K.3.6.2.	Doc. 42107/1
L	Rewrite of Annex L.	Doc. 42059/2

## 1.2 September 2015 Revision of the May 2013 Edition

The following is a summary of the changes made from the previous version of this manual. In some cases redline/strikeout markings are shown to make it easier to determine what was changed.

<b>Manual Section</b>	<b>Change</b>	<b>Authorization Doc. Number</b>
	Updated the cover page and table of contents.	Editorial
4.1.3	Corrected non-federal allocations listed in 512-608 MHz and 614-698 MHz.	Editorial
4.1.3	Updated the international table and footnotes in accordance with FCC 15-50 (April 2015).	Editorial
4.3.16	Added text addressing federal agencies' requirements to satisfy law enforcement, public safety, emergency response, and disaster-response interoperability requirements.	Doc. 41346/1 Doc. 41411/4
5.3.3.1	Modified paragraph 1.b by adding "Attenuation greater than 80 decibels or an absolute power of less than -13/dBm/MHz is not required."	Doc. 41411/4
6.1.1	Modified the term "Earth Exploration-Satellite Service."	Doc. 41172/1
7.7	Added text to incorporate frequency bands adopted by ITU-R in Recommendation SA.1863 regarding radiocommunications for emergency use in manned space flight.	Doc. 41173/1
7.11	Updated name Dryden Flight Research Center to Armstrong Flight Research Center.	Doc. 40922/1
7.12	Added additional text related to non-federal radio station frequency use under 47 CFR, Part 90.	Doc. 41411/4 Doc. 41346/1
7.14	Modified the text for the performance of electronic attack test, training, and exercise operations and the reference for the training manual.	Doc. 41411/4
7.25	Modified the references for the Department of Justice electronic countermeasures (ECM) document.	Doc. 41411/4
8.2.20	Deleted the section titled "Conversion of Fixed Stations to SSB Transmission" and marked it as "Reserved."	Doc. 41411/4
8.2.54	Renamed this section "Authorization for Range Safety Operations in the Band 420-450 MHz" and removed outdated text.	Doc. 41411/4
8.3.3	Modified the FCC references in this section.	Doc. 41411/4
8.3.11	Modified text related to the current status of the former Pacific Island trust territories. Added text noting that operations of more than 30 days must be recorded in the Government Master File.	Doc. 41411/4
8.3.15	Added coordination data for Earth stations at Fairbanks, AK; Morehead, KY; Blossom Point, MD; Wallops Island, MD; and Cleveland, OH.	Doc. 41411/4
8.3.28	Added a maximum power calculation and formulas for equivalent isotropically radiated power (EIRP) under Section 8.3.28.f.	Doc. 41411/4
9.8.2.19	Modified parameters for the TME Field for quantitative assessments and assignment reviews.	Doc. 41170/1
9.8.2.39.ee	Modified this section with updated requirements for submitting Transition Planning Data.	Doc. 40920/1
9.8.2.39	Corrected the spelling of "Tethered Aereostat Radar."	Doc. 41169/1
9.8.2.39	Modified text to coincide with Executive Order 13526.	Doc. 41176/1
9.8.2.41	Deleted "41. Agency Handling Instructions" and replaced it with "41. FOI-Exempt from FOIA."	Doc. 41411/4
10.1.4	Corrected the spelling of "National Security and Emergency Preparedness."	Editorial
A.1	Updated the contact information for Coordination Notes C008 and C057.	Doc. 41168/1 Doc. 41411/4
A.6	Added Special Notes 950 and 951 and removed a group of unused special notes.	Doc. 41175/1 Doc. 41411/4
G.1	Added bureau codes for Department of Interior's Bureau of Ocean Energy Management (BOEM) and Bureau of Safety and Environmental Enforcement (BSEE). Deleted codes for Interior's Minerals Management Service (MMS) and Department of Justice's Immigration and Naturalization Service (IN).	Doc. 41167/1

G.1	Added a bureau code for Department of Transportation's Railroad Retirement Board (RRB).	Doc. 41411/4
G.5	Additions, corrections, and deletions were made to the manufacturer codes.	Doc. 41171/1 Doc. 41411/4

### 1.2.1 Instructions

The printed revision package contains only revised pages. Please insert revised pages in your manual. Destroy replaced pages.

### 1.3 May 2014 Revision of the May 2013 Edition

The following is a summary of the changes made from the previous version of this manual. In some cases, redline/strikeout markings are shown to make it easier to determine what was changed.

Manual Section	Brief Description	IRAC Doc #										
	Updated the cover page and table of contents.	Editorial										
	Corrected the spelling of the word "administrator" on page <i>ii</i> .	Editorial										
	Updated several areas of Chapter One.	Doc. 40776/1										
4.1.3	Updated the allocation table and some of the International, United States, Government, and Non-Government footnotes.	Doc. 40763/1 Doc. 40737/1										
5.2.1	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">Frequency Band 108 to 470 MHz</th> <th style="width: 20%;">Frequency Tolerance</th> </tr> </thead> <tbody> <tr> <td>....</td> <td></td> </tr> <tr> <td>C. 162 - 174 MHz, low power and splinter channels</td> <td></td> </tr> <tr> <td>1. <math>pY \leq 10W</math></td> <td style="text-align: center;">5</td> </tr> <tr> <td>2. <math>pY &gt; 10W</math></td> <td style="text-align: center;">2</td> </tr> </tbody> </table>	Frequency Band 108 to 470 MHz	Frequency Tolerance	....		C. 162 - 174 MHz, low power and splinter channels		1. $pY \leq 10W$	5	2. $pY > 10W$	2	Editorial
Frequency Band 108 to 470 MHz	Frequency Tolerance											
....												
C. 162 - 174 MHz, low power and splinter channels												
1. $pY \leq 10W$	5											
2. $pY > 10W$	2											
5.3.5	Corrected the section numbering on pages 5-17 through 5-21.	Editorial										
5.5	Made additional corrections to the RSEC data in this section.	Doc. 40110/1										
5.3.7	Removed some outdated references to sections 4.3.10 and 1.3.10.a.	Doc. 40362/1										
5.3.8	Removed an outdated reference to section 4.3.10.	Doc. 40362/1										
6.1.4	Corrected the spelling of "Gage" to read "Gauge" in Table A, item 8.	Editorial										
7.11	Modified the Army text related to the name change of "AFMO CONUS" to "AFMO US&P."	Doc. 40024/1										
7.11	Changed "Dryden" to "Armstrong" Flight Research Center.											
7.17	Spelling correction for the word "coordination."	Editorial										
8.3.10	Corrected data related to the change of frequency range 1215-1400 MHz to 1215-1390 MHz	Doc. 40021/1										
8.3.16	in Sections 3.4.2, 3.9.1, 3.9.5, 8.3.10, 8.3.16, 9.8.2, Annex A, and Annex D.											
8.3.15	Updated the data in the table of coordinated Earth stations.	Doc. 40880/1										
8.3.13	Modified the text in subparagraphs 1.d and 1.e.	Doc. 40457/1										
9.5	Added new Section 9.5 "Required Justification For A Frequency Assignment."	Doc. 40538/1										
9.8.2	Correction of data related to the change of frequency range 1215-1400 MHz to 1215-1390 MHz in Sections 3.4.2, 3.9.1, 3.9.5, 8.3.10, 8.3.16, 9.8.2, Annex A, and Annex D.	Doc. 40021/1										
9.8.2.39.j	Added Special Note 945 which supports cube/nano satellites. This special note is related to a new requirement added in the circuit remarks field of Section 9.8.2.39.j.	Doc. 40242/1										
9.8.2.39.ee	Updated the text for the "TRN" field.											
9.8.2.39.u	Removed the specific function identifier for "COMBATANT COMMAND/GENERAL OFFICER SUPPORT" and added "CCMD/GENERAL/FLAG OFFICER SPT."	Doc. 40536/1										
9.8.2.80.k	Added a new subparagraph k: 80. Supplementary Details (SUP) (72 Characters-15 Occurrences).	Doc. 40538/1										
9.11	Editorial correction of text that should have been superscripted in Section 9.11.c.	Editorial										
9.11	The following new footnotes are added to assist with processing assignment modifications by stopping the requirement for the processing date to start over: RAP <sup>3</sup> RLA <sup>4</sup> RLG <sup>4</sup> SUP <sup>6</sup> XAP <sup>3</sup> XLA <sup>4</sup> XLG <sup>4</sup> *NTS <sup>5</sup>	Doc. 40537/1										
9.16.2	Updated the text related to the agency voting procedures.	Doc. 40535/1										
10.3.3	Revised the order of the text and added "All threat simulator assignments will use the 'XT' station class and bear the special note 371."	Doc. 40539/1										
A.1	Modified the Army name of "AFMO CONUS" to "AFMO US&P."	Doc. 40024/1										
A.1	Correction of data related to the change of frequency range 1215-1400 MHz to 1215-1390	Doc. 40021/1										

	MHz in Sections 3.4.2, 3.9.1, 3.9.5, 8.3.10, 8.3.16, 9.8.2, Annex A, and Annex D.	
A.5	Added Priority Note 77, which addresses the support of transportable fixed applications.	Doc. 40364/1
A.6	Added Special Note 323 to support the federal relocation efforts from bands 1695-1710 MHz and 1755-1780 MHz.	Doc. 40578/1
	Corrected the reference in S381 to read 7.3.8 instead of 7.3.5.	Doc. 40578/1
	Added Special Note S939 to support the DOD Advanced Extremely High Frequency (AEHF) Satellite.	Doc. 40155/1
	Corrected the satellite name in Special Note 843 and added Special Note 944, which supports the NASA LADEE satellite.	Doc. 40241/1
	Added Special Note 945, which supports cube/nano Satellites. Also added related new requirement in the circuit remarks field of Section 9.8.2.39.j.	Doc. 40242/1
	Added Special Notes 946, 947, and 948 to this section.	Doc. 40546/1 Doc. 40578/1
Annex D	Table 1 – corrected the data related to the change of the frequency range 1215-1400 MHz to 1215-1390 MHz in Sections 3.4.2, 3.9.1, 3.9.5, 8.3.10, 8.3.16, 9.8.2, Annex A, and Annex D.	Doc. 40021/1
	Table 3 – modified the Army text related to the name change “AFMO CONUS” to “AFMO US&P.”	Doc. 40024/1
G.1	Added an abbreviation for the National Geospatial-Intelligence Agency.	Doc. 40244/1
	Added a new bureau code for the Department of State, Office of Foreign Missions (OFM)	Doc. 40240/1
	Added a new bureau code for “Bureau of Fiscal Service” and deleted codes for “Financial Management Service” and “Bureau of Public Debt” from the Department of Treasury.	Doc. 40577/1
G.1 G.3	Modified Army text related to the name change “AFMO CONUS” to “AFMO US&P.”	Doc. 40024/1
G.5	Added new manufacturer codes: CAW CalAmp Wireless Network Corporation CDD Combat Direction System Activity Dam Neck FLR FLIR Systems Inc. INN Innoflight Inc. IVW Inovonics Wireless LUX Luxul Corporation RAI RADA Electronics Industries SPM SPECTRACOM SPO Spotter RF TRC Terrasat Corporation, Inc. TTG Telectronics Technology Corporation	Doc. 40921/1
Annex J	Editorial corrections to the equations on page J-9, pulsed radar, non-FM pulsed and phase-coded pulse radars. Replaced the missing “<” sign before 12.6 in two equations.	Editorial

### 1.3.1 Instructions

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### 1.4 Summary of Changes, May 2013 Edition

The following is a summary of the changes made from the previous version of this manual. In some cases, redline/strikeout markings are shown to make it easier to determine what was changed.

Manual Section	Brief Description	IRAC Doc #
	Changed all references to “Part” as related to this manual to “Section.”	
	Chapters 3, 4, 8 and Annex H modifications related to WRC-12 results that affected the non-allocation table parts of this manual.	Doc. 39749/1
<b>Chapter 3</b>		
3.9.2	Correcting errors and adding new information related to the U.S. and Mexico protocols.	Doc. 39477/1
<b>Chapter 4</b>		
	Revisions were made to the allocation table and allocation footnotes, including changes from (1)	Doc. 39862/1

the FCC Order portion of the WRC-07 NPRM and Order; 2) AWS-4 R&O; and 3) the R&O portion of the ESAA NPRM and R&O. The Commission has implemented a new numbering system for domestic footnotes based on related international footnote numbers; however, if the footnote is unrelated to an international footnote, it is based on frequency order. *See WRC-07 Table Clean-up Order* (Doc. 40578/1) at paragraphs 12-16.

Renumbered Footnotes			
Previous	Current	Based on/Comments	Renumbered in:
RR 5.227 (now RR 5.226)	[US226] <sup>1</sup>	Place-holder footnote	WRC-07 Table Clean-up Order ( <a href="#">DA 10-762</a> )
RR 5.288	US288	RR 5.288	WRC-07 Implementation Order ( <a href="#">FCC 12-140</a> )
RR 5.444	US444	Place-holder footnote	WRC-07 Table Clean-up Order
RR 5.444A	US444A		
RR 5.519	US519	Place-holder footnote	WRC-07 Table Clean-up Order
US7, NG135 <sup>2</sup>	US270	RR 5.270	WRC-07 Table Clean-up Order
US58	US128	Frequency order (10 GHz)	WRC-07 Implementation Order
US216	US73	Frequency order (150.775 MHz)	WRC-07 Table Clean-up Order
US217	[US269]	RR 5.269	
US229	US241	RR 5.241	WRC-07 Table Clean-up Order
[US269], US311 <sup>3</sup>	US385	RR 5.385	WRC-07 Table Clean-up Order
US277	US130	Frequency order (10.6 GHz)	WRC-07 Implementation Order
US294	US2	Frequency order (9 kHz)	WRC-07 Table Clean-up Order
US311, [US269]	US385	RR 5.385	WRC-07 Table Clean-up Order
US335	US242	Frequency order (220 MHz)	WRC-07 Table Clean-up Order
US338	US97	Frequency order (2305 MHz)	WRC-07 Implementation Order
US345	US64	Frequency order (401 MHz)	MedRadio Expansion (MMNs) R&O ( <a href="#">FCC 11-176</a> )
US348	US109	Frequency order (3650 MHz)	WRC-07 Implementation Order
US351, US352	US37	Frequency order (1390 MHz)	WRC-07 Table Clean-up Order
US355	US131	Frequency order (10.7 GHz)	WRC-07 Implementation Order
US361	US83	Frequency order (1432 MHz)	WRC-07 Implementation Order
US366, US367, US396	US136	RR 5.136	WRC-07 Table Clean-up Order
US381	US23	Frequency order (5330.5 kHz)	Amateur 60 Meter Band R&O ( <a href="#">FCC 11-171</a> )
US396, US366, US367	US136	RR 5.136	WRC-07 Table Clean-up Order
US399	US228	Frequency order (161.9625 MHz)	WRC-07 Table Clean-up Order
US403	US36	Frequency order (120.647 MHz)	US403 added in the Aviation 3 <sup>rd</sup> R&O ( <a href="#">FCC 10-103</a> ); US403 was renumbered as US36 in 76 FR 17347 ( <a href="#">March 29, 2011</a> )
NG12	NG32	Frequency order (454.6625 MHz)	WRC-07 Implementation Order
NG19	NG7	Frequency order (2 MHz)	WRC-07 Table Clean-up Order
NG42, NG134	NG50	Frequency order (10 GHz)	WRC-07 Implementation Order
NG43	Not used	-	AWS-4 R&O ( <a href="#">FCC 12-151</a> )
NG104, NG182, NG186	NG52	Frequency order (10.7 GHz)	ESAA R&O ( <a href="#">FCC 12-161</a> )
NG128	NG5	Frequency order (535 kHz)	WRC-07 Table Clean-up Order
NG134, NG42	NG50	Frequency order (10 GHz)	WRC-07 Implementation Order
NG135, US7	US270	RR 5.270	WRC-07 Table Clean-up Order
NG142	NG14	Frequency order (54 MHz)	WRC-07 Table Clean-up Order
NG168	NG43	-	WRC-07 Implementation Order (NG43 later removed)
NG182, NG186, NG104	NG52	Frequency order (10.7 GHz)	ESAA R&O

## Chapter 5

<sup>1</sup> “[US226]” indicates that U.S. footnote number 226 has been re-used. See note 43 of the WRC-07 Table Clean-up Order for previous use of US226.

<sup>2</sup> “US7, NG135” indicates that the text from footnotes US7 and NG135 was combined. The resulting footnote was numbered as US270.

<sup>3</sup> “[US269], US311” indicates that the text from footnotes US269 and US311 was combined and that U.S. footnote number 269 has been re-used.

5.3.3	Corrected references and formatting in the section. Also, substantial updates were made to the table “Maximum Equivalent Isotropic Radiated Power (EIRP).”	Doc. 39524/1 Doc. 39764/1	
5.5	The text for this section was rewritten.	Doc. 38349/1	
<b>Chapter 6</b>			
6.1.1	Removed the aeronautical fixed service data from this manual.	Doc. 40019/1	
6.1.2 6.1.3 6.1.4	Removed the aeronautical fixed service data from this manual in Sections 6.1.2, 6.1.3 and 6.1.4.	Doc. 40018/1	
<b>Chapter 7</b>			
7.11	Correction of unit and address information Area Frequency Coordinator 554CS99CS/SCOTS 5870 Devlin Drive Nellis AFB, NV 89191-7075 Telephone: 702-652-3417, DSN: 682-3417	Doc. 40020/1	
7.11	Correction of unit and address information: <b>Commerce, Department of</b> NIST; NOAA/ESRL/NGDC/NWS; NTIA/ITS Boulder Laboratories and Associated Field Activities 325 Broadway, ITS.E Boulder, CO 80305 Telephone: 303-497-4619 Fax: 303-497-6982 <a href="mailto:frequencymanager@its.blrdoc.gov">frequencymanager@its.blrdoc.gov</a>	Doc. 39731/1	
7.14	Revised the title and text of this section.	Doc. 39956/1	
7.15.3	Removed the aeronautical fixed service data from this manual.	Doc. 40018/1	
7.23	Added “Consumer and Industrial Signal Boosters” to the list of operations eligible to operate under the FCC license or under the FCC rules.	Doc. 39964/1	
<b>Chapter 8</b>			
8.3.32	Removed “FOI” and added “AHI” to section 8.3.32.6.a.	Doc. 39957/1	
8.3.20	The coordination information was updated in this section.	Doc. 39731/1	
8.2.34	Text was changed to read: .... “4. The maximum e.i.r.p. of a station in the fixed or mobile service shall not exceed the values contained in Section 5.3.3.2 ( <i>Maximum Equivalent Isotropic Radiated Power (EIRP) Table</i> ).”	Doc. 39524/1	
8.3.7.a	The following text was edited:  “Use of the GOES Satellite terrestrial data collection platforms (DCP) in the band 401-402.2756 MHz shall be coordinated and registered with the Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) office of National Environmental Satellite Data Information Service (NESDIS). There are two satellites in operation to receive data from DCP, one in the east at 75 degrees which uses odd numbered GOES channels and one in the west at 135 degrees that uses even numbered GOES channels. The satellites collect data from the DCP at set time intervals and relays information to a central processing center. NESDIS controls all time slots and operating collection codes.  .... Agencies wishing to register a GOES data collection platform should contact NESDIS at the following address:  NOAA/NESDIS Office of Satellite and Product Operations NOAA Satellite Operations Facility 4231 Suitland Road, Room 1646 Suitland, MD 20746 E-Mail: <a href="mailto:GOES.DCS@NOAA.GOV">GOES.DCS@NOAA.GOV</a> »	Doc. 39389/1	
8.3.15	The following data was added to Section 8.3.15:  <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Transmitting Earth Station</td> </tr> </table>	Transmitting Earth Station	Doc. 39549/1
Transmitting Earth Station			

		<b>BAND (MHz)</b>	<b>LOCATION</b>	<b>COORDINATES</b>	<b>NOMINAL COORDINATION DISTANCE* (KILOMETERS)</b>	<b>IRAC DOCUMENT</b>	<b>AGENCY</b>	
		2025-2110	SD, Sioux Falls	434410N0963721W	360	39549/1	NASA	
		2025-2110	AK, Barrow Point	711800N1563600W	900	39549/1	DOC	
		2025-2110	AK, Gilmore Creek	645826N1473007W	1375	39549/1	DOC	
		2025-2120	AK, Fairbanks	645826N1473035W	370	39549/1	DOC	
		7145-7235	CA, Goldstone DSS-26	352008N1165223W	1050	39549/1	NASA	
	<b>Receiving Earth Station</b>							
		<b>BAND (MHz)</b>	<b>LOCATION</b>	<b>COORDINATES</b>	<b>NOMINAL COORDINATION DISTANCE* (KILOMETERS)</b>	<b>IRAC DOCUMENT</b>	<b>AGENCY</b>	
		2200-2290	SD, Sioux Falls	434410N0963721W	360	39549/1	NASA	
		2200-2290	AK, Barrow Point	711800N1563600W	900	39549/1	DOC	
		2200-2290	AK, Fairbanks	645826N1473035W	370	39549/1	DOC	
		2200-2290	AK, Gilmore Creek	645826N1473007W	1375	39549/1	DOC	
		8025-8400	SD, Sioux Falls	434410N0963721W	360	39549/1	NASA	
		8025-8400	AK, Gilmore Creek	645826N1473007W	1375	39549/1	DOC	
		8400-8450	CA, Goldstone DSS-26	352008N1165223W	1155	39549/1	NASA	
		8450-8500	CA, Goldstone DSS-26	352008N1165223W	1050	39549/1	NASA	
8.3.33	Added a new section 8.3.33 Coordination of Frequency Assignments for Unmanned Aircraft Systems (UAS).							Doc. 39635/1
9.7.2.3b (4)	added “_--Underscore” in this section.							Doc. 39636/1
9.8.1	Added the code AHI to the “Table: Index of Field Codes.”							Doc. 39957/1
9.8.2	Replaced the term “FOIA” with the “AHI” in Section 9.8.2.41							Doc. 39957/1
9.8.2.39.m	Removed the band 935-940 MHz and corrected the spelling of “exclusively.” Also removed (6).f and revised some text in (9).							Doc. 39387/1
9.8.2	The term “aeronautical fixed (AX)” was removed in subsections 27, 29, 36, and 38.							Doc. 40018/1
9.8.2	Some new text was added to the following sections, along with formatting and spelling corrections. 27. XAZ--Transmitter Antenna Orientation (3 Characters--1 Occurrence). 28. XCL--Transmitter Call Sign (8 Characters-1 Occurrence) 36. RAZ--Receiver Antenna Orientation (3 Character--30 Occurrence) 37. ACL--Receiving Station Call Sign (8 Characters--30 Occurrences)							Doc. 39638/1
9.10	9.10 USE OF FIELD CODES, in the Table for Field Codes removed FOI text and added AHI text.							Doc. 39957/1
9.11	In subsection c. removed “FOI” and added “AHI.”							Doc. 39957/1
<b>Chapter 10</b>								
10.1.4 10.5.5 10.5.7	The text of section 10.1.4 was modified to reflect changes made by Executive Order 13618. Section 10.5.5 was modified to reflect current procedures for addressing Telecommunications Service Priority for Radiocommunications (TSP-R) requests. Section 10.5.7 details the process for the resolution of disputed (TSP-R) requests.							Doc. 40025/1
A.1	Revised the text for C069: “C069--Subject to coordination and scheduling with Ms. Letecia Reeves, U.S. Department of Commerce; National Oceanic and Atmospheric Administration (NOAA); National Environmental Satellite, Data, and Information Service (NESDIS); Satellite Products and Services Division (SPSD); NOAA Satellite Operations Facility, 4231 Suitland Road, (Room 1646), Suitland, MD 20746, telephone 301-817-4563.”							Doc. 39388/1
A.6	Added a new special note: “S405--Prior to operation under the authority of this assignment for unmanned aircraft system (UAS), a certificate of waiver or authorization must be obtained from the Federal Aviation Administration per 8.3.33.”							Doc. 39386/1
	Added new Special Notes 938, 940, 941, 942 and 943.							Doc. 39388/1 Doc. 39523/1 Doc. 40022/1
<b>Annex B</b>								



B.1.3	Editorial correction of the orbit distance of geostationary satellites listed in Section B.1.3: “(b) the geostationary orbit is 35,700 km; and,…”	Doc. 39407/1
<b>Annex G</b>		
G.1	Removed the codes for Environmental Data Information Service, Environmental Research Laboratories and NOAA Marine and Aircraft Operations and added Oceanic and Atmospheric Research and Office of Marine and Aviation Operations.	Doc. 39637/1
	Added a bureau code for Federal Trade Commission (FTC).	Doc. 33882/1
	Added a bureau code for Army Spectrum (Fort Meade) (FM).	Doc. 40023/1
M.2.2.1	The current measurement method is updated to the NTIA Technical Report TR- 05-420.	Doc. 39789/1
<b>Annex J</b>		
Annex J	In TABLE A. Necessary Bandwidth Calculations, added information for Aeronautical Mobile Telemetry.	Doc. 39788/1
<b>Annex O</b>	Annex O has undergone a complete revision.	

### 1.4.1 Instructions

This is a new edition.

**(Last Page in the Summary)**