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Description of document: National Telecommunications and Information Administration (NTIA) Meeting minutes of Meetings of the Interdepartment Radio Advisory Committee (IRAC), May - September 2022

Requested date: 13-October-2022

Release date: 04-February-2026

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Source of document: FOIA Officer
National Telecommunications and Information Administration
U.S. Department of Commerce
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February 4, 2026

VIA EMAIL

RE: NTIA FOIA 23-07

On October 13, 2022, the National Telecommunications and Information Administration (NTIA), Office of the Chief Counsel, received your Freedom of Information Act (FOIA) request pursuant to 5 U.S.C. § 552. NTIA acknowledged receipt on October 18, 2022. Your request is as follows:

- A copy of the meeting agenda and meeting minutes from the last (most recent) five meetings of the Interdepartment Radio Advisory Committee (IRAC).

NTIA has conducted a thorough search for responsive records within its possession and control. Enclosed via Secure File Transfer is the first and final response to your request, which contains 142 records. Portions of 127 records are being withheld under FOIA Exemption 5, which protects internal government communications that are legally privileged, including the deliberative process privilege, attorney-client privilege, and attorney work product. 5 U.S.C. § 552(b)(5). Portions of 7 records are being withheld under FOIA Exemption 7e, which protects sensitive IT systems and related information.¹ As required, NTIA conducted a harm analysis of the withheld material and determined that potential for harm in releasing this material is very high.

Pursuant to Department of Commerce FOIA regulations, NTIA is required to charge fees for processing FOIA requests, 15 C.F.R. § 4.11(a). In this case, the fee for processing this request is below the minimum fee threshold of \$20.00 and therefore, NTIA is not charging a fee for this request. 15 C.F.R. § 4.11(d)(4).

This concludes the initial determination by the Department. You have the right to appeal an adverse determination of your FOIA request. *See* 15 C.F.R. § 4.10(a). An appeal must be received within ninety (90) calendar days of the date of this response by the Assistant General Counsel for Employment, Litigation, and Information (AGC-ELI), U.S. Department of Commerce, Office of the General Counsel, Room 5896, 1401 Constitution Ave., N.W., Washington, DC 20230. You may also send your appeal by email to FOIAAppeals@doc.gov.

¹ *See, e.g., Prechtel v. FCC*, 330 F. Supp. 3d 320, 335 (D.D.C. 2018) (protecting agency's electronic server logs because disclosure "would reveal sensitive information regarding [its] IT architecture, including security measures [it] takes to protect its systems from malicious activity" and would provide a "roadmap" to circumvent agency's defensive efforts); *see also*, 5 U.S.C. § 552(b)(7)(E).

The appeal must include the following: a copy of the original request; this response to the request; and the reason why this letter was in error. The submission (including email and FOIAXpress submissions) is not complete without the required submissions. The appeal letter, the envelope, and the email subject line should be clearly marked "Freedom of Information Act Appeal." The email, FOIAXpress, and office of the AGC-ELI are monitored only on working days during normal business hours (8:30 a.m. to 5:00 p.m., Eastern Time, Monday through Friday). FOIA appeals posted to the email box, FOIAXpress, or the office of the AGC-ELI after normal business hours will be deemed received on the next normal business day.

You may also contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about FOIA mediation services. The contact information for OGIS is as follows: Office of Government Information Services, National Archives and Records Administration, 8601 Adelphi Road-OGIS, College Park, Maryland 20740-6001; email at ogis@nara.gov; telephone at 202-741-5770; toll free at 1-877-684-6448; or facsimile at 202-741-5769. You may also reach the Department's FOIA Public Liaison, Nicholas J. Cormier, at 202-482-3257 or via email at efoia@doc.gov, for additional assistance.

If you have any questions regarding the processing of your request, please contact Katherine Keechle at kkeechle@ntia.gov.

Sincerely,

STACY CHENEY

Digitally signed by STACY
CHENEY

Date: 2026.02.04 16:40:35 -05'00'

Stacy M. Cheney
Acting Deputy Chief Counsel



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
 INTERDEPARTMENT RADIO ADVISORY COMMITTEE
 Washington, D.C. 20230

2059th Interdepartment Radio Advisory Committee Meeting

Meeting Date: May 10, 2022, at 9:30 a.m.

Teleconference Only Meeting

[Microsoft Teams Link](#)

or

Phone Number: (b) (7)(E) Participant Code: (b) (7)(E)

*New Items

1. Introductions and Roll Call

2. Classification

This meeting is Unclassified. It is being recorded to assist with drafting of summary meeting minutes. An attendee's voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. *Doc. 45159/1 — Agenda for the 2059th Meeting, May 10, 2022
- b. *Doc. 45159/2 — Agenda for the 2059th Meeting, May 10, 2022

4. Chairman's Comments and Announcements

- a. *Doc. 45149/1 — Appointment of IRAC Officers (April 25, 2022)
- b. *Doc. 45148/1 — Scheduled Meetings for May 2022 - July 2022

5. Summary Minutes

- a. Doc. 45109/1 — Summary Minutes for the 2057th IRAC Meeting (March 8, 2022)
Tabled from 4/12/2022
- b. *Doc. 45143/1 — Summary Minutes for the 2058th IRAC Meeting (April 12, 2022)

6. Department of Transportation Requests for Subcommittee Membership

- a. Doc. 45127/1 — Transportation Request for RCS Membership (March 31, 2022)
Tabled from 4/12/2022
- b. Doc. 45128/1 — Transportation Request for EPS Membership (March 31, 2022)
Tabled from 4/12/2022
- c. Doc. 45132/1 — Transportation Request for TSC Membership (April 4, 2022)
Tabled from 4/12/2022

7. Factors Affecting Assignments in the (b) (5)

- a. Doc. 44973/1 — (b) (5)
Tabled from 4/12/2022

b. Doc. 44981/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 44982/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 44985/1 — (b) (5)

Tabled from 4/12/2022

e. Doc. 45023/1 — (b) (5)

Tabled from 4/12/2022

8. Technical Feasibility of (b) (5)

a. Doc. 45015/2 — (b) (5)

Tabled from 4/12/2022

9. Agency Counter (b) (5)

a. Doc. 44614/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 44863/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 44864/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 44930/1 — (b) (5)

Tabled from 4/12/2022

e. Doc. 45136/1 — (b) (5)

Tabled from 4/12/2022

10. (b) (5)

a. *Doc. 45158/1 — (b) (5)

b. *Doc. 45163/1 — (b) (5)

11. (b) (5)

a. *Doc. 45157/1 — (b) (5)

12. FCC Proceeding - (b) (5)

a. *Doc. 45144/1 — (b) (5)

- b. *Doc. 45145/1 — (b) (5)
- c. *Doc. 45160/1 — (b) (5)

13. FCC Proceeding - (b) (5)

- a. Doc. 44776/1 — (b) (5)
Tabled from 3/8/2022
- b. Doc. 44776/2 — (b) (5)
Tabled from 3/8/2022
- c. Doc. 44792/1 — (b) (5)
Tabled from 3/8/2022
- d. Doc. 44794/1 — Coast Guard Comments on FCC Draft NPRM re Use of the AIS (May 14, 2021)
Tabled from 3/8/2022
- e. Doc. 44795/1 — (b) (5)
Tabled from 3/8/2022
- f. Doc. 44796/1 — (b) (5)
Tabled from 3/8/2022
- g. Doc. 44893/1 — (b) (5)
Tabled from 3/8/2022
- h. Doc. 44898/1 — (b) (5)
Tabled from 3/8/2022
- i. Doc. 44963/1 — (b) (5)
Tabled from 3/8/2022
- j. Doc. 44963/2 — (b) (5)
Tabled from 3/8/2022

14. FCC Proceeding - (b) (5)

- a. *Doc. 45162/1 — (b) (5)

15. FCC Proceeding - (b) (5)

- a. Doc. 43507/4 — (b) (5)
Tabled from 4/12/2022

b. Doc. 44370/1 — (b) (5) [redacted]
Tabled from 4/12/2022

c. Doc. 44414/1 — (b) (5) [redacted]
[redacted]
Tabled from 4/12/2022

d. Doc. 44415/1 — (b) (5) [redacted]
Tabled from 4/12/2022

e. Doc. 44421/1 — (b) (5) [redacted]
Tabled from 4/12/2022

f. Doc. 44444/1 — (b) (5) [redacted]
Tabled from 4/12/2022

g. Doc. 44445/1 — (b) (5) [redacted]
[redacted]
Tabled from 4/12/2022

h. Doc. 44459/1 — (b) (5) [redacted]
[redacted]
Tabled from 4/12/2022

i. Doc. 44460/1 — (b) (5) [redacted]
Tabled from 4/12/2022

j. Doc. 44625/1 — (b) (5) [redacted]
Tabled from 4/12/2022

k. Doc. 44669/1 — (b) (5) [redacted]
[redacted]
Tabled from 4/12/2022

l. Doc. 44732/1 — (b) (5) [redacted]
[redacted]
Tabled from 4/12/2022

m. Doc. 44827/1 — (b) (5) [redacted]
Tabled from 4/12/2022

n. Doc. 44868/1 — (b) (5) [redacted]
Tabled from 4/12/2022

o. Doc. 44967/1 — (b) (5) [redacted]
Tabled from 4/12/2022

p. Doc. 44983/1 — (b) (5) [redacted]
Tabled from 4/12/2022

q. Doc. 45045/1 — (b) (5) [redacted]
Tabled from 4/12/2022

r. Doc. 45134/1 — (b) (5) [redacted]
Tabled from 4/12/2022

s. *Doc. 45150/1 — (b) (5) [redacted]

16. FCC Proceeding - (b) (5) [redacted]
[redacted]

a. Doc. 45115/2 — (b) (5) [Redacted]

Tabled from 4/12/2022

b. Doc. 45121/1 — (b) (5) [Redacted]

[Redacted]

Tabled from 4/12/2022

c. Doc. 45122/1 — (b) (5) [Redacted]

[Redacted]

Tabled from 4/12/2022

d. Doc. 45124/1 — (b) (5) [Redacted]

[Redacted]

Tabled from 4/12/2022

e. *Doc. 45115/3 — (b) (5) [Redacted]

17. FCC Proceeding — (b) (5) [Redacted]

[Redacted]

a. Doc. 41916/1 — (b) (5) [Redacted]

[Redacted]

Tabled from 4/12/2022

b. Doc. 42193/1 — (b) (5) [Redacted]

[Redacted]

Tabled from 4/12/2022

c. Doc. 44719/1 — (b) (5) [Redacted]

[Redacted]

Tabled from 4/12/2022

d. Doc. 44719/2 — (b) (5) [Redacted]

Tabled from 4/12/2022

e. Doc. 44773/1 — (b) (5) [Redacted]

[Redacted]

Tabled from 4/12/2022

f. Doc. 44857/1 — (b) (5) [Redacted]

[Redacted]

[Redacted]

Tabled from 4/12/2022

g. Doc. 44858/1 — (b) (5) [Redacted]

[Redacted]

Tabled from 4/12/2022

h. Doc. 44859/1 — (b) (5) [Redacted]

[Redacted]

[Redacted]

Tabled from 4/12/2022

i. Doc. 44860/1 — (b) (5) [Redacted]

[Redacted]

[Redacted]

Tabled from 4/12/2022

j. Doc. 44894/1 — (b) (5)

Tabled from 4/12/2022

k. Doc. 45135/1 — (b) (5)

Tabled from 4/12/2022

l. Doc. 45138/1 — (b) (5)

Tabled from 4/12/2022

m. Doc. 45142/1 — (b) (5)

Tabled from 4/12/2022

18. FCC Proceeding — (b) (5)

a. Doc. 44419/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 44452/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 44955/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 44972/1 — (b) (5)

Tabled from 4/12/2022

e. Doc. 45026/1 — (b) (5)

Tabled from 4/12/2022

f. Doc. 45027/1 — (b) (5)

Tabled from 4/12/2022

g. Doc. 45046/1 — (b) (5)

Tabled from 4/12/2022

19. FCC Proceeding — (b) (5)

a. Doc. 44572/1 — (b) (5)

Tabled from 2/8/2022

b. Doc. 44642/1 — (b) (5)

Tabled from 2/8/2022

c. Doc. 44657/1 — (b) (5)

Tabled from 2/8/2022

d. Doc. 44659/1 — (b) (5) [redacted]
Tabled from 2/8/2022

e. Doc. 44696/1 — (b) (5) [redacted]
[redacted]
Tabled from 2/8/2022

f. Doc. 44715/1 — (b) (5) [redacted]
Tabled from 2/8/2022

g. Doc. 44716/1 — (b) (5) [redacted]
[redacted]
Tabled from 2/8/2022

h. Doc. 44750/1 — (b) (5) [redacted]
[redacted]
Tabled from 2/8/2022

i. Doc. 44757/1 — (b) (5) [redacted]
[redacted]
Tabled from 2/8/2022

j. Doc. 44826/1 — (b) (5) [redacted]
[redacted]
Tabled from 2/8/2022

k. Doc. 44942/1 — (b) (5) [redacted]
[redacted]
Tabled from 2/8/2022

20. FCC Proceeding — (b) (5) [redacted]
[redacted]

a. Doc. 44611/1 — (b) (5) [redacted]
[redacted]
Tabled from 3/8/2022

21. FCC Proceeding - (b) (5) [redacted]

a. Doc. 44371/1 — (b) (5) [redacted]
[redacted]
Tabled from 3/8/2022

b. Doc. 44612/1 — (b) (5) [redacted]
[redacted]
Tabled from 3/8/2022

22. FCC Proceeding - (b) (5) [redacted]

a. Doc. 44373/1 — (b) (5) [redacted]
[redacted]
Tabled from 3/8/2022

23. FCC Proceeding - (b) (5) [redacted]
[redacted]

a. Doc. 44881/1 — (b) (5) [redacted]
[redacted]
Tabled from 4/12/2022

b. Doc. 44928/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 44938/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 45110/1 — (b) (5)

Tabled from 4/12/2022

24. FCC Proceeding - (b) (5)

a. Doc. 44610/1 — (b) (5)

Tabled from 3/8/2022

b. Doc. 44653/1 — (b) (5)

Tabled from 3/8/2022

c. Doc. 44693/1 — (b) (5)

Tabled from 3/8/2022

d. Doc. 44902/1 — (b) (5)

Tabled from 3/8/2022

e. Doc. 44903/1 — (b) (5)

Tabled from 3/8/2022

25. FCC Proceeding - (b) (5)

a. Doc. 43965/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 44095/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 44130/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 44237/1 — (b) (5)

Tabled from 4/12/2022

e. Doc. 44238/1 — (b) (5)

Tabled from 4/12/2022

f. Doc. 44468/1 — (b) (5)

Tabled from 4/12/2022

g. Doc. 44867/1 — (b) (5)

Tabled from 4/12/2022

h. Doc. 45047/2 — (b) (5)

Tabled from 4/12/2022

i. Doc. 45123/1 — (b) (5)

Tabled from 4/12/2022

26. FCC Proceeding - (b) (5)

a. Doc. 44784/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 44813/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 44828/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 44829/1 — (b) (5)

Tabled from 4/12/2022

e. Doc. 44852/1 — (b) (5)

Tabled from 4/12/2022

f. Doc. 44984/1 — (b) (5)

Tabled from 4/12/2022

g. Doc. 45005/1 — (b) (5)

Tabled from 4/12/2022

h. Doc. 45006/1 — (b) (5)

Tabled from 4/12/2022

i. Doc. 45009/1 — (b) (5)

Tabled from 4/12/2022

j. Doc. 45010/1 — (b) (5)

Tabled from 4/12/2022

27. FCC Proceeding - (b) (5)

a. Doc. 44025/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 44088/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 44089/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 44113/1 — (b) (5)

Tabled from 4/12/2022

28. FCC Proceeding - (b) (5)

a. Doc. 45070/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 45088/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 45090/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 45090/2 — (b) (5)

Tabled from 4/12/2022

e. Doc. 45095/1 — (b) (5)

Tabled from 4/12/2022

f. *Doc. 45095/2 — (b) (5)

29. FCC Proceeding - (b) (5)

a. Doc. 45019/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 45055/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 45058/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 45068/1 — (b) (5)

Tabled from 4/12/2022

e. Doc. 45069/1 — (b) (5)

Tabled from 4/12/2022

30. Other Business



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
 INTERDEPARTMENT RADIO ADVISORY COMMITTEE
 Washington, D.C. 20230

2059th Interdepartment Radio Advisory Committee Meeting

The National Telecommunications and Information Administration (NTIA) convened the 2059th meeting of the Interdepartment Radio Advisory Committee (IRAC) on May 10, 2022, starting at 9:30 a.m. This meeting was conducted by Microsoft Teams and teleconference only and adjourned at 11:04 a.m.

1. Introductions and Roll Call

IRAC OFFICERS AND SUPPORT

Mr. Alan Frable	Chairperson
Mr. Edward Drocella	Vice-Chairperson/Chairperson, Technical Subcommittee (TSC)
Mr. Scott Patrick	Policy Advisor
Mr. Tom Snead	Executive Secretary

MEMBER-AGENCY REPRESENTATIVES

Mr. Robert Parker, Representative	Agriculture
Mr. Perry Jones, Alt. Representative	Agriculture
Ms. Thu Luu, Representative	Air Force (AF)
Mr. David Pooley, Alt. Representative	AF, (US Space Force)
Mr. Stevan Jovancevic, Alt. Representative	Army
Ms. Jodi Cramer, Alt. Representative	Coast Guard (CG)
Mr. Ivan Navarro, Representative	Commerce
Mr. Bradford Benbow, Representative	Energy (DOE)
Mr. Don Nellis, Representative	Federal Aviation Administration
Mr. Robert Hamlett, Representative	Department of Homeland Security (DHS)
Mr. Bryan Wright, Representative	Interior
Mr. Quan Vu, Representative	Justice
Mr. RJ Balanga, Representative	Nat'l Aeronautics & Space Admin. (NASA)
Mr. William Horne, Alt. Representative	NASA
Mr. Jerome Foreman, Representative	Navy
Mr. Tom Kidd, Alt. Representative	Navy
Mr. Arthur DeLeon, Alt. Representative	Navy
CW04 Jose Figueroa, Alt. Representative	Navy (US Marine Corps)
Mr. Randolph Peterson, Alt. Representative	Navy (US Marine Corps)
Mr. Jonathan Williams, Representative	National Science Foundation (NSF)
Dr. John Chapin, Alt. Representative	NSF
Ms. Wanda Covington-Ragsdale, Representative	Transportation (DOT)
Ms. Karen Van Dyke, Alt. Representative	DOT
Mr. Akinlolu Akinmboni, Alt. Representative	DOT
Ms. Christina McCann, Representative	Treasury

FEDERAL COMMUNICATIONS COMMISSION (FCC) LIAISON

Mr. Michael Ha, Liaison	FCC
Mr. Serey Thai, Alt. Liaison	FCC

OBSERVERS

Mr. Robert Channas, Observer	Defense Information Systems Agency (DISA)
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ASSISTANTS, CONSULTANT, ADVISORS, VISITORS OR GUESTS

Mr. Dean Yardas, Contractor	AF/T. Luu
Mr. Andrew Pencek, Contractor	DOE/B. Benbow
Mr. Jim Mentzer, Contractor	DHS/R. Hamlett
Mr. Larry Reed, Contractor	NASA/RJ. Balanga
Dr. David Morris, Government	NSF/J. Williams
Mr. Ali Nassib, Government	FCC/M. Ha
Mr. Matthew Flack, Government	FCC/M. Ha
Mr. Alex Dias-Martinez, Government	FCC/M. Ha
Mr. Chris Lusk, Contractor	DISA/R. Channas
Mr. Fred Williams, Contractor	DISA/R. Channas

SUBCOMMITTEE AND AD HOC OFFICERS

Mr. Greg Melz	Vice-Chairperson, Frequency Assignment Subcommittee
Mr. Robert Denny	Chairperson, Spectrum Planning Subcommittee (SPS)
Dr. Ayhan Sakarya	Vice-Chairperson, SPS
Mr. Charles Glass	Chairperson, Radio Conference Subcommittee
Mr. Scott Jackson	Chairperson, Emergency Planning Subcommittee

NTIA Leadership and Staff

Mr. Charles Cooper, Associate Administrator	NTIA/Office of Spectrum Management (OSM)
Mr. Steve Molina, Deputy Associate Administrator	NTIA/OSM
Mr. Derek Khlopin, Deputy Associate Administrator	NTIA/OSM
Mr. Scott Patrick, Policy Advisor	NTIA/OSM
Mr. Bruce Jacobs, Senior Spectrum Policy Advisor	OSM/Spectrum Affairs & Information Division (SAID)
Mr. Douglas Brake, Telecom. Specialist	OSM/SAID
Mr. Binyam Tadesse, Division Chief	OSM/Spectrum Services Division
Mr. Bruce Lamb, Telecom. Specialist	OSM/International Spectrum Policy Division (ISPD)
Ms. Shelli Haskins, Telecom. Specialist	OSM/ISPD

2. Classification

The Executive Secretary informed the participants that the classification level of the meeting is unclassified. He asked the attendees to turn off any recording devices and reminded all attendees that

the discussions of the IRAC constitute pre-decisional discussions of the Executive Branch and information regarding those discussions are not generally releasable outside the Federal Government. He told the participants that this meeting is being recorded to assist with the drafting of summary meeting minutes. He also stated that an attendee's voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. Doc. 45159/1 — Agenda for the 2059th Meeting, May 10, 2022
- b. Doc. 45159/2 — Agenda for the 2059th Meeting, May 10, 2022

The Chair started by apologizing for the technical issues with the meeting on Teams and thanked the members for their flexibility in moving back to the MyMeetings environment. He then noted item 3a. and asked the members if there were any proposed changes to item 3b.

Hearing none and without objection, the Chair approved item 3b.

4. Chairman's Comments and Announcements

The Chair started by introducing the OSM Associate Administrator, Mr. Charles Cooper who had an announcement.

Mr. Cooper thanked the members for their work with IRAC and stated that NTIA has hired a familiar face as OSM's Deputy Associate Administrator for Planning and Policy – Mr. Derek Khlopin.

- a. Doc. 45149/1 — Appointment of IRAC Officers (April 25, 2022)

Mr. Khlopin thanked the members as well and stated he was looking forward to his new role within OSM. He started by introducing item 4a., as the new appointments for IRAC Officers. Notable changes were removing "Acting" from several positions making them permanent. Updates included:

- Mr. Alan Frable as the IRAC Chairman (removing Acting)
- Mr. Thomas Snead as the IRAC Executive Secretary (removing Acting)
- Mr. Robert Avery as the SSS Chairman (removing Acting)
- Mr. John Darden as the Assistant IRAC Executive Secretary

The Chair advised that the updates will be posted to the NTIA website. Without objection the Chair noted items 4a.

- b. Doc. 45148/1 — Scheduled Meetings for May 2022 - July 2022

The Chair introduced item 4b., noting that the Ad Hoc 181 meeting has been cancelled for May and the Spectrum Working Group will be held this Friday (May 13th) from 9:00 – 11:00 a.m. The Executive Secretary added a last-minute change moving the RCS for June 2nd to the 9th from 9:30 – 11:30 a.m. This meeting will be in-person at HCHB but call-in details will be made available. This was confirmed by the RCS Chair (Mr. Glass). The Chair asked if there were any other updates to the meeting schedule

Hearing none and without objection, the Chair noted item 4b.

Mr. Jacobs (OSM/SAID) (b) (5)

The Navy Representative announced Mr. Tom Kidd's retirement and that this would be his last meeting. Mr. Kidd provided some final words and noted the amazing accomplishments of the IRAC over the past few decades. He is a huge proponent of workforce development and may be working on some initiatives in retirement. The Chair thanked Tom for his tremendous service to the IRAC and the Spectrum Community at large. Multiple agencies concurred.

5. Summary Minutes

- a. Doc. 45109/1 — Summary Minutes for the 2057th IRAC Meeting (March 8, 2022)
- b. Doc. 45143/1 — Summary Minutes for the 2058th IRAC Meeting (April 12, 2022)

The Chair asked the Executive Secretary and the membership if there were any updates to item 5a. Hearing none, and without objection, the Chair approved item 5a.

The Chair stated that item 5b. will be tabled to the June IRAC (June 15, 2022) meeting to give representatives additional time for review. Without objection, the Chair tabled item 5b.

6. Department of Transportation Requests for Subcommittee Membership

- a. Doc. 45127/1 — Transportation Request for RCS Membership (March 31, 2022)
- b. Doc. 45128/1 — Transportation Request for EPS Membership (March 31, 2022)
- c. Doc. 45132/1 — Transportation Request for TSC Membership (April 4, 2022)

The Chair asked the RCS Chairman on the status of item 6a. The RCS Chair stated this request was approved unanimously.

The Chair asked the EPS Chairman on the status of item 6b. The EPS Chair stated this request was approved unanimously as well.

The Chair asked the TSC Chairman on the status of item 6c. The TSC Chair stated that there should be no issue with this request, but it will be discussed at the June TSC meeting.

The Chair asked the membership if there were any issues with approving this request. Hearing none, and without objection, the Chair approved items 6a., 6b., and 6c. Per the NTIA Manual the request will be sent to the DAA, Planning and Policy for formal approval and then it will be incorporated into the next revision of the NTIA Manual.

7. Factors Affecting Assignments in the (b) (5)

- a. Doc. 44973/1 — (b) (5)
- b. Doc. 44981/1 — (b) (5)

- c. Doc. 44982/1 — (b) (5)
- d. Doc. 44985/1 — (b) (5)
- e. Doc. 45023/1 — (b) (5)

The Chair announced that this item is in a holding pattern and will be tabled for one month.

(b) (5)

(b) (5)

(b) (5)

(b) (5)

(b) (5)

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled items 7 a-e to the June 14, 2022, IRAC meeting.

- 8. **Technical Feasibility of** (b) (5)
- a. Doc. 45015/2 — (b) (5)

The Chair stated that like item 7 a-e, item 8a. will be tabled for one month.

Without objection, the Chair tabled item 8a. to the June 14, 2022, IRAC meeting.

- 9. **Agency Counter-** (b) (5)
- a. Doc. 44614/1 — (b) (5)
- b. Doc. 44863/1 — (b) (5)
- c. Doc. 44864/1 — (b) (5)
- d. Doc. 44930/1 — (b) (5)

- e. Doc. 45136/1 — (b) (5)

The Chair stated nothing significant has happened on this topic in the last month but NTIA will be scheduling a meeting with DOE and FAA in the future for further discussion. The Chair asked if there were any comments on this item.

Hearing none and without objection, the Chair tabled items 9 a-e to the June 14, 2022, IRAC meeting.

10. (b) (5)

- a. Doc. 45158/1 — (b) (5)
b. Doc. 45163/1 — (b) (5)

The RCS Chair introduced items 10a. and 10b. Item 10a. (b) (5)

Item 10b. (b) (5)

The RCS Chair noted that there is time for review of these documents as the next CITELE (Inter-American Telecommunication Commission) meeting is not until late October. Finally, he added that several additional proposals would likely be coming to the IRAC for approval soon.

The Chair asked if there were any questions. Hearing none, and without objection the Chair tabled items 10a. and 10b. to the June 14, 2022, IRAC meeting.

11. (b) (5)

- a. Doc. 45157/1 — (b) (5)

The FAS Vice-Chairperson introduced item 11a., which was approved by the FAS at their April meeting. It is a Commerce request to the Special Series notes (b) (5) in Annex A of the NTIA Manual. This item requests the (b) (5)

The Chair asked if there were any objections to approving this request. Without objection, the Chair approved item 11a.

12. FCC Proceeding - (b) (5)

- a. Doc. 45144/1 — (b) (5)
b. Doc. 45145/1 — (b) (5)
c. Doc. 45160/1 — (b) (5)

The Chair introduced item 12a., as an FCC draft Public Notice. (b) (5) asked for item 12b. to be tabled for one month before introduction. The Chair stated that this grouping would all be tabled.

Mr. Jacobs (NTIA) introduced item 12c., as the NTIA response to the draft PN. This PN includes possible remedies to the congestion of AIS channels. He thanked the (b) (5) for their edits and included them all in the NTIA response. After the FCC releases its Public Notice, we plan to circulate it to IRAC membership for inputs.

The Chair asked if there were any questions or comments on this item. Hearing none and without objection the Chair tabled items 12 a-c to the June 14, 2022, IRAC meeting.

13. FCC Proceeding - (b) (5)

- a. Doc. 44776/1 — (b) (5)
- b. Doc. 44776/2 — (b) (5)
- c. Doc. 44792/1 — (b) (5)
- d. Doc. 44794/1 — (b) (5)
- e. Doc. 44795/1 — (b) (5)
- f. Doc. 44796/1 — (b) (5)
- g. Doc. 44893/1 — (b) (5)
- h. Doc. 44898/1 — (b) (5)
- i. Doc. 44963/1 — (b) (5)
- j. Doc. 44963/2 — (b) (5)

Mr. Jacobs (NTIA) provided a brief update and mentioned that (b) (5)

(b) (5) Representative asked to be included in any future meetings.

The Chair asked if there were any questions or comments on this item. Hearing none and without objection the Chair tabled items 13 a-j to the June 14, 2022, IRAC meeting.

14. FCC Proceeding - (b) (5)

- a. Doc. 45162/1 — (b) (5)

Mr. Brake (NTIA) introduced item 14a. This item is an open-ended notice of inquiry from the FCC. (b) (5)

[Redacted text]

(b) (5) [redacted] There will be an opportunity to submit public comments. Mr. Brake is reviewing comments received and will provide a consolidated response to FCC.

The Chair asked if there were any questions or comments on this item. Hearing none and without objection the Chair tabled item 14 a. to the June 14, 2022, IRAC meeting.

15. FCC Proceeding – (b) (5) [redacted]

- a. Doc. 43507/4 — (b) (5) [redacted]
- b. Doc. 44370/1 — (b) (5) [redacted]
- c. Doc. 44414/1 — (b) (5) [redacted]
- d. Doc. 44415/1 — (b) (5) [redacted]
- e. Doc. 44421/1 — (b) (5) [redacted]
- f. Doc. 44444/1 — (b) (5) [redacted]
- g. Doc. 44445/1 — (b) (5) [redacted]
- h. Doc. 44459/1 — (b) (5) [redacted]
- i. Doc. 44460/1 — (b) (5) [redacted]
- j. Doc. 44625/1 — (b) (5) [redacted]
- k. Doc. 44669/1 — (b) (5) [redacted]
- l. Doc. 44732/1 — (b) (5) [redacted]
- m. Doc. 44827/1 — (b) (5) [redacted]
- n. Doc. 44868/1 — (b) (5) [redacted]
- o. Doc. 44967/1 — (b) (5) [redacted]
- p. Doc. 44983/1 — (b) (5) [redacted]
- q. Doc. 45045/1 — (b) (5) [redacted]
- r. Doc. 45134/1 — (b) (5) [redacted]
- s. Doc. 45150/1 — (b) (5) [redacted]

The NTIA Policy Advisor introduced item 22s. (b) (5) [redacted]

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 15 a-s to the June 14, 2022, IRAC meeting.

16. FCC Proceeding – (b) (5) [redacted]

- a. Doc. 45115/2 — (b) (5) [redacted]
- b. Doc. 45121/1 — (b) (5) [redacted]

- c. Doc. 45122/1 — (b) (5)
- d. Doc. 45124/1 — (b) (5)
- e. Doc. 45115/3 — (b) (5)

The Chair started by noting item 12a. (Draft) as the NOI is item 12e.

(b) (5)

(b) (5) At least nine agencies have expressed an interest in participating in the working group. If others are also interested, they should contact Mr. Jacobs.

The Air Force Representative asked if the working group meetings could be scheduled as part of the monthly TSC meeting due to full calendars and scheduling difficulties for additional meetings. The TSC Chair stated he had no objection.

The Transportation Representative asked if the meeting would start before or after public comments are due. Mr. Jacobs replied that he expects the meeting to occur before comments are due.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 16 b-e to the June 14, 2022, IRAC meeting.

17. FCC Proceeding — (b) (5)

- a. Doc. 41916/1 — (b) (5)
- b. Doc. 42193/1 — (b) (5)
- c. Doc. 44719/1 — (b) (5)
- d. Doc. 44719/2 — (b) (5)
- e. Doc. 44773/1 — (b) (5)
- f. Doc. 44857/1 — (b) (5)
- g. Doc. 44858/1 — (b) (5)
- h. Doc. 44859/1 — (b) (5)
- i. Doc. 44860/1 — (b) (5)

- j. Doc. 44894/1 — (b) (5)
- k. Doc. 45135/1 — (b) (5)
- l. Doc. 45138/1 — (b) (5)
- m. Doc. 45142/1 — (b) (5)

Mr. Jacobs (NTIA) advised that there were no updates on this proceeding. NTIA continues to work with agencies and is currently seeking guidance from the OSM front office before continuing working group discussions.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 17 a-m to the June 14, 2022, IRAC meeting.

- 18. FCC Proceeding - (b) (5)**
- a. Doc. 44419/1 — (b) (5)
 - b. Doc. 44452/1 — (b) (5)
 - c. Doc. 44955/1 — (b) (5)
 - d. Doc. 44972/1 — (b) (5)
 - e. Doc. 45026/1 — (b) (5)
 - f. Doc. 45027/1 — (b) (5)
 - g. Doc. 45046/1 — (b) (5)

The Vice-Chairman provided the update stating that (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 18 a-g to the June 14, 2022, IRAC meeting.

- 19. FCC Proceeding - (b) (5)**
- a. Doc. 44572/1 — (b) (5)
 - b. Doc. 44642/1 — (b) (5)
 - c. Doc. 44657/1 — (b) (5)
 - d. Doc. 44659/1 — (b) (5)
 - e. Doc. 44696/1 — (b) (5)
 - f. Doc. 44715/1 — (b) (5)
 - g. Doc. 44716/1 — (b) (5)
 - h. Doc. 44750/1 — (b) (5)

- i. Doc. 44757/1 — (b) (5)
- j. Doc. 44826/1 — (b) (5)
- k. Doc. 44942/1 — (b) (5)

The FCC Liaison provided the update on this proceeding. (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 19 a-k to the August 9, 2022, IRAC meeting.

20. FCC Proceeding — (b) (5)

- a. Doc. 44611/1 — (b) (5)

The Chair recommended noting this item as it has been tracked for a long time. There is no government comments or interest and no need to track this item anymore.

The Chair asked if there were any other questions. Hearing none and without objection, the Chair noted item 20a.

21. FCC Proceeding - (b) (5)

- a. Doc. 44371/1 — (b) (5)
 - b. Doc. 44612/1 — (b) (5)
- (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 21 a-b to the August 9, 2022, IRAC meeting.

22. FCC Proceeding - (b) (5)

- a. Doc. 44373/1 — (b) (5)

The FCC Liaison noted that there is nothing new to report on this item.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled item 22a. to the June 14, 2022, IRAC meeting.

23. FCC Proceeding - (b) (5)

- a. Doc. 44881/1 — (b) (5)
- b. Doc. 44928/1 — (b) (5)
- c. Doc. 44938/1 — (b) (5)
- d. Doc. 45110/1 — (b) (5)

The FCC Liaison stated that they are working on the report and order and are waiting on NTIA to provide their final comments.

The Vice-Chair stated the letter is under final review with the OSM front office.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 23 a-d to the June 14, 2022, IRAC meeting.

24. FCC Proceeding - (b) (5)

- a. Doc. 44610/1 — (b) (5)
- b. Doc. 44653/1 — (b) (5)
- c. Doc. 44693/1 — (b) (5)
- d. Doc. 44902/1 — (b) (5)
- e. Doc. 44903/1 — (b) (5)

(b) (5) The FCC Liaison stated that the issue is still being worked.

(b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 24 a-e to the July 12, 2022, IRAC meeting.

25. FCC Proceeding - (b) (5)

- a. Doc. 43965/1 — (b) (5)
- b. Doc. 44095/1 — (b) (5)

- c. Doc. 44130/1 — (b) (5)
- d. Doc. 44237/1 — (b) (5)
- e. Doc. 44238/1 — (b) (5)
- f. Doc. 44468/1 — (b) (5)
- g. Doc. 44867/1 — (b) (5)
- h. Doc. 45047/2 — (b) (5)
- i. Doc. 45123/1 — (b) (5)

The Chair noted that there is nothing new to report on this item.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 25 a-i to the June 14, 2022, IRAC meeting.

26. FCC Proceeding - (b) (5)

- a. Doc. 44784/1 — (b) (5)
- b. Doc. 44813/1 — (b) (5)
- c. Doc. 44828/1 — (b) (5)
- d. Doc. 44829/1 — (b) (5)
- e. Doc. 44852/1 — (b) (5)
- f. Doc. 44984/1 — (b) (5)
- g. Doc. 45005/1 — (b) (5)
- h. Doc. 45006/1 — (b) (5)
- i. Doc. 45009/1 — (b) (5)
- j. Doc. 45010/1 — (b) (5)

The FCC Liaison provided an update that this item is still out for Commissioner votes before it can be released. He does not have an estimated time for completion.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 26 a-j to the June 14, 2022, IRAC meeting.

27. FCC Proceeding - (b) (5)

- a. Doc. 44025/1 — (b) (5)
- b. Doc. 44088/1 — (b) (5)
- c. Doc. 44089/1 — (b) (5)
- d. Doc. 44113/1 — (b) (5)

The Commerce Representative provided an update on this proceeding. (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 27 a-d to the June 14, 2022, IRAC meeting.

28. FCC Proceeding - (b) (5)

a. Doc. 45070/1 — (b) (5)

b. Doc. 45088/1 — (b) (5)

c. Doc. 45090/1 — (b) (5)

d. Doc. 45090/2 — (b) (5)

e. Doc. 45095/1 — (b) (5)

f. Doc. 45095/2 — (b) (5)

The Chair started by noting items 28c. and 28e.

(b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 28a., 28b., 28d., and 28f. to the June 14, 2022, IRAC meeting.

29. FCC Proceeding - (b) (5)

a. Doc. 45019/1 — (b) (5)

b. Doc. 45055/1 — (b) (5)

c. Doc. 45058/1 — (b) (5)

d. Doc. 45068/1 — (b) (5)

e. Doc. 45069/1 — (b) (5)

(b) (5)

The updated document is still being reviewed/finalized with OSM.

Both the Transportation and DHS Representatives asked to see copies of the updated waiver restrictions. The Vice-Chair concurred.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 29 a-e to the June 14, 2022, IRAC meeting.

30. Other Business

None



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
INTERDEPARTMENT RADIO ADVISORY COMMITTEE
Washington, D.C. 20230

2060th Interdepartment Radio Advisory Committee Meeting

Meeting Date: June 14, 2022, at 9:30 a.m.

Teleconference Only Meeting
[Microsoft Teams Link](#)

Phone Number: (b) (7)(E) or
(b) (7)(E) Participant Code: (b) (7)(E)
(b) (7)(E)

*New Items

1. Introductions and Roll Call

2. Classification

This meeting is Unclassified. It is being recorded to assist with drafting of summary meeting minutes. An attendee's voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. *Doc. 45175/1 — Agenda for the 2060th Meeting, June 14, 2022
- b. *Doc. 45175/2 — Agenda for the 2060th Meeting, June 14, 2022

4. Chairman's Comments and Announcements

- a. *Doc. 45172/1 — Scheduled Meetings for May 2022 - July 2022

5. Summary Minutes

- a. Doc. 45143/1 — Summary Minutes for the 2058th IRAC Meeting (April 12, 2022)
Tabled from 5/10/2022
- b. *Doc. 45143/2 — Summary Minutes for the 2058th IRAC Meeting (April 12, 2022)
- c. *Doc. 45167/1 — Summary Minutes for the 2059th IRAC Meeting (May 10, 2022)

6. Factors Affecting Assignments in the (b) (5)

- a. Doc. 44973/1 — (b) (5)
Tabled from 5/10/2022
- b. Doc. 44981/1 — (b) (5)
Tabled from 5/10/2022
- c. Doc. 44982/1 — (b) (5)
Tabled from 5/10/2022

d. Doc. 44985/1 — (b) (5)

Tabled from 5/10/2022

e. Doc. 45023/1 — (b) (5)

Tabled from 5/10/2022

7. Technical Feasibility of (b) (5)

a. Doc. 45015/2 — (b) (5)

Tabled from 5/10/2022

8. Agency Counter (b) (5)

a. Doc. 44614/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 44863/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 44864/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 44930/1 — (b) (5)

Tabled from 5/10/2022

e. Doc. 45136/1 — (b) (5)

Tabled from 5/10/2022

9. (b) (5)

a. Doc. 45158/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 45163/1 — (b) (5)

Tabled from 5/10/2022

c. *Doc. 45181/1 — (b) (5)

10. (b) (5)

a. *Doc. 45176/1 — (b) (5)

b. *Doc. 45177/1 — (b) (5)

c. *Doc. 45178/1 — (b) (5)

11. FCC Proceeding — (b) (5)

a. Doc. 43738/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 44910 1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 44913/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 44914/1 — (b) (5)

Tabled from 4/12/2022

e. Doc. 44975/1 — (b) (5)

Tabled from 4/12/2022

f. Doc. 44975/2 — (b) (5)

Tabled from 4/12/2022

g. Doc. 44996/1 — (b) (5)

Tabled from 4/12/2022

12. FCC Proceeding - (b) (5)

a. Doc. 45144/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 45145/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 45160/1 — (b) (5)

Tabled from 5/10/2022

13. FCC Proceeding - (b) (5)

a. Doc. 44776/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 44776/2 — (b) (5)

Tabled from 5/10/2022

c. Doc. 44792/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 44794/1 — (b) (5)

Tabled from 5/10/2022

e. Doc. 44795/1 — (b) (5)

Tabled from 5/10/2022

f. Doc. 44796/1 — (b) (5)

Tabled from 5/10/2022

g. Doc. 44893/1 — (b) (5)

Tabled from 5/10/2022

h. Doc. 44898/1 — (b) (5)

Tabled from 5/10/2022

i. Doc. 44963/1 — (b) (5)

Tabled from 5/10/2022

j. Doc. 44963/2 — (b) (5)

Tabled from 5/10/2022

14. FCC Proceeding - (b) (5)

a. Doc. 45162/1 — (b) (5)

Tabled from 5/10/2022

b. *Doc. 45164/1 — (b) (5)

c. *Doc. 45165/1 — (b) (5)

d. *Doc. 45166/1 — (b) (5)

e. *Doc. 45169/1 — (b) (5)

f. *Doc. 45170/1 — (b) (5)

g. *Doc. 45162/2 — (b) (5)

h. *Doc. 45162/3 — (b) (5)

15. FCC Proceeding - (b) (5)

a. Doc. 45115/2 — (b) (5)

Tabled from 5/10/2022

b. Doc. 45121/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 45122/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 45124/1 — (b) (5)

Tabled from 5/10/2022

e. Doc. 45115/3 — (b) (5)

Tabled from 5/10/2022

16. FCC Proceeding — (b) (5)

a. Doc. 41916/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 42193/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 44719/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 44719/2 — (b) (5)

Tabled from 5/10/2022

e. Doc. 44773/1 — (b) (5)

Tabled from 5/10/2022

f. Doc. 44857/1 — (b) (5)

Tabled from 5/10/2022

g. Doc. 44858/1 — (b) (5)

Tabled from 5/10/2022

h. Doc. 44859/1 — (b) (5)

Tabled from 5/10/2022

i. Doc. 44860/1 — (b) (5)

Tabled from 5/10/2022

j. Doc. 44894/1 — (b) (5)

Tabled from 5/10/2022

k. Doc. 45135/1 — (b) (5)

Tabled from 5/10/2022

l. Doc. 45138/1 — (b) (5)

Tabled from 5/10/2022

m. Doc. 45142/1 — (b) (5)

Tabled from 5/10/2022

17. FCC Proceeding - (b) (5)

a. Doc. 44227/1 — (b) (5)

Tabled from 3/8/2022

b. Doc. 44490/1 — (b) (5)

Tabled from 3/8/2022

c. Doc. 44491/1 — (b) (5)

Tabled from 3/8/2022

d. Doc. 44513/1 — (b) (5)

Tabled from 3/8/2022

e. Doc. 44513/2 — (b) (5)

Tabled from 3/8/2022

18. FCC Proceeding - (b) (5)

a. Doc. 43384/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 43385/1 — (b) (5)

Tabled from 4/12/2022

c. Doc. 43425/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 43478/1 — (b) (5)

e. Doc. 43739/1 — (b) (5)

Tabled from 4/12/2022

f. Doc. 43990/1 — (b) (5)

Tabled from 4/12/2022

g. Doc. 43998/1 — (b) (5)

Tabled from 4/12/2022

h. Doc. 44033/1 — (b) (5)

Tabled from 4/12/2022

i. Doc. 44056/1 — (b) (5)

j. Doc. 44231/1 — (b) (5)

k. Doc. 44239/1 — (b) (5)

Tabled from 4/12/2022

19. FCC Proceeding - (b) (5)

a. Doc. 44709/1 — (b) (5)

Tabled from 4/12/2022

b. Doc. 44709/2 — (b) (5)

Tabled from 4/12/2022

c. Doc. 44747/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 44774/1 — (b) (5)

Tabled from 4/12/2022

e. Doc. 44879/1 — (b) (5)

Tabled from 4/12/2022

f. Doc. 44937/1 — (b) (5)

Tabled from 4/12/2022

20. FCC Proceeding - (b) (5)

a. Doc. 43507/4 — (b) (5)

Tabled from 5/10/2022

b. Doc. 44370/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 44414/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 44415/1 — (b) (5)

Tabled from 5/10/2022

e. Doc. 44421/1 — (b) (5)

Tabled from 5/10/2022

f. Doc. 44444/1 — (b) (5)

Tabled from 5/10/2022

g. Doc. 44445/1 — (b) (5)

Tabled from 5/10/2022

h. Doc. 44459/1 — (b) (5)

Tabled from 5/10/2022

i. Doc. 44460/1 — (b) (5)

Tabled from 5/10/2022

j. Doc. 44625/1 — (b) (5)

Tabled from 5/10/2022

k. Doc. 44669/1 — (b) (5)

Tabled from 5/10/2022

l. Doc. 44732/1 — (b) (5)

Tabled from 5/10/2022

m. Doc. 44827/1 — (b) (5)

Tabled from 5/10/2022

n. Doc. 44868/1 — (b) (5)

Tabled from 5/10/2022

o. Doc. 44967/1 — (b) (5)

Tabled from 5/10/2022

p. Doc. 44983/1 — (b) (5)

Tabled from 5/10/2022

q. Doc. 45045/1 — (b) (5)

Tabled from 5/10/2022

r. Doc. 45134/1 — (b) (5)

Tabled from 5/10/2022

s. Doc. 45150/1 — (b) (5)

Tabled from 5/10/2022

21. FCC Proceeding — (b) (5)

a. Doc. 44419/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 44452/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 44955/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 44972/1 — (b) (5)

Tabled from 5/10/2022

e. Doc. 45026/1 — (b) (5)

Tabled from 5/10/2022

f. Doc. 45027/1 — (b) (5)

Tabled from 5/10/2022

g. Doc. 45046/1 — (b) (5)

Tabled from 5/10/2022

22. FCC Proceeding - (b) (5)

a. Doc. 44373/1 — (b) (5)

Tabled from 5/10/2022

23. FCC Proceeding - (b) (5)

a. Doc. 44881/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 44928/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 44938/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 45110/1 — (b) (5)

Tabled from 5/10/2022

24. FCC Proceeding - (b) (5)

a. Doc. 43965/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 44095/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 44130/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 44237/1 — (b) (5)

Tabled from 5/10/2022

e. Doc. 44238/1 — (b) (5)

Tabled from 5/10/2022

f. Doc. 44468/1 — (b) (5)

Tabled from 5/10/2022

g. Doc. 44867/1 — (b) (5)

Tabled from 5/10/2022

h. Doc. 45047/2 — (b) (5)

Tabled from 5/10/2022

i. Doc. 45123/1 — (b) (5)

Tabled from 5/10/2022

25. FCC Proceeding — (b) (5)

a. Doc. 44784/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 44813/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 44828/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 44829/1 — (b) (5)

Tabled from 5/10/2022

e. Doc. 44852/1 — (b) (5)

Tabled from 5/10/2022

f. Doc. 44984/1 — (b) (5)

Tabled from 5/10/2022

g. Doc. 45005/1 — (b) (5)

Tabled from 5/10/2022

h. Doc. 45006/1 — (b) (5)

Tabled from 5/10/2022

i. Doc. 45009/1 — (b) (5)

Tabled from 5/10/2022

j. Doc. 45010/1 — (b) (5)

Tabled from 5/10/2022

26. FCC Proceeding — (b) (5)

a. Doc. 44025/1 — (b) (5)

Tabled from 5/10/2022

b. Doc. 44088/1 — (b) (5)

Tabled from 5/10/2022

c. Doc. 44089/1 — (b) (5)

Tabled from 5/10/2022

d. Doc. 44113/1 — (b) (5)

Tabled from 5/10/2022

e. *Doc. 45180/1 — (b) (5) [redacted]

27. FCC Proceeding - (b) (5) [redacted]
a. *Doc. 45179/1 — (b) (5) [redacted]

28. FCC Proceeding - (b) (5) [redacted]
a. Doc. 45070/1 — (b) (5) [redacted]

Tabled from 5/10/2022

b. Doc. 45088/1 — (b) (5) [redacted]
Tabled from 5/10/2022

c. Doc. 45090/2 — (b) (5) [redacted]
Tabled from 5/10/2022

d. Doc. 45095/2 — (b) (5) [redacted]
Tabled from 5/10/2022

29. FCC Proceeding - (b) (5) [redacted]

a. Doc. 45019/1 — (b) (5) [redacted]
Tabled from 5/10/2022

b. Doc. 45055/1 — (b) (5) [redacted]
Tabled from 5/10/2022

c. Doc. 45058/1 — (b) (5) [redacted]
Tabled from 5/10/2022

d. Doc. 45068/1 — (b) (5) [redacted]
Tabled from 5/10/2022

e. Doc. 45069/1 — (b) (5) [redacted]
Tabled from 5/10/2022

30. Other Business



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
 INTERDEPARTMENT RADIO ADVISORY COMMITTEE
 Washington, D.C. 20230

2060th Interdepartment Radio Advisory Committee Meeting

The National Telecommunications and Information Administration (NTIA) convened the 2060th meeting of the Interdepartment Radio Advisory Committee (IRAC) on June 14, 2022, starting at 9:30 a.m. This meeting was conducted by Microsoft Teams and teleconference only and adjourned at 11:00 a.m.

1. Introductions and Roll Call

IRAC OFFICERS AND SUPPORT

Mr. Alan Frable	Chairperson
Mr. Edward Drocella	Vice-Chairperson/Chairperson, Technical Subcommittee (TSC)
Mr. Tom Snead	Executive Secretary

MEMBER-AGENCY REPRESENTATIVES

Mr. Robert Parker, Representative	Agriculture
Mr. Perry Jones, Alt. Representative	Agriculture
Mr. Jimmy Nguyen, Alt. Representative	Air Force (AF)
Mr. David Pooley, Alt. Representative	AF, (US Space Force)
Mr. Stevan Jovancevic, Alt. Representative	Army
Mr. Jerry Ulcek, Representative	Coast Guard (CG)
Ms. Jodi Cramer, Alt. Representative	CG
Mr. Ivan Navarro, Representative	Commerce
Mr. Bradford Benbow, Representative	Energy (DOE)
Mr. Don Nellis, Representative	Federal Aviation Administration
Mr. Robert Hamlett, Representative	Department of Homeland Security (DHS)
Mr. Bryan Wright, Representative	Interior
Mr. Anthony Frey, Alt. Representative	Interior
Mr. Dean Otey, Alt. Representative	Interior
Mr. Quan Vu, Representative	Justice
Mr. John Zuzek, Alt. Representative	Nat'l Aeronautics & Space Admin. (NASA)
Mr. Jerome Foreman, Representative	Navy
Mr. Arthur DeLeon, Alt. Representative	Navy
CW04 Jose Figueroa, Alt. Representative	Navy (US Marine Corps)
Mr. Randolph Peterson, Alt. Representative	Navy (US Marine Corps)
Mr. Jonathan Williams, Representative	National Science Foundation (NSF)
Mr. Brett Greenwalt, Representative	State
Ms. Wanda Covington-Ragsdale, Representative	Transportation (DOT)
Ms. Karen Van Dyke, Alt. Representative	DOT
Mr. Akinlolu Akinmboni, Alt. Representative	DOT
Ms. Christina McCann, Representative	Treasury

FEDERAL COMMUNICATIONS COMMISSION (FCC) LIAISON

Mr. Michael Ha, Liaison	FCC
Mr. Serey Thai, Alt. Liaison	FCC

OBSERVERS

Mr. Francisco Balbuena Guzman, Observer	Defense Information Systems Agency (DISA)
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ASSISTANTS, CONSULTANT, ADVISORS, VISITORS OR GUESTS

Mr. Dean Yardas, Contractor	AF/J. Nguyen
Lt Col Rolando Aguirre, Government	AF/J. Nguyen
Mr. Andrew Pencek, Contractor	DOE/B. Benbow
Mr. Jim Mentzer, Contractor	DHS/R. Hamlett
Mr. Dave Franc, Government	NASA/J. Zuzek
Mr. Larry Reed, Contractor	NASA/J. Zuzek
Dr. David Morris, Government	NSF/J. Williams
Mr. Ali Nassib, Government	FCC/M. Ha
Mr. Matthew Flack, Government	FCC/M. Ha
Mr. Alex Dias-Martinez, Government	FCC/M. Ha
Mr. Chris Lusk, Contractor	DISA/F. Balbuena Guzman
Ms. Tanin Izadi, Contractor	DISA/F. Balbuena Guzman

SUBCOMMITTEE AND AD HOC OFFICERS

Mr. John McFall	Chairperson, Frequency Assignment Subcommittee (FAS)
Mr. Greg Melz	Vice-Chairperson, FAS
Mr. Robert Denny	Chairperson, Spectrum Planning Subcommittee (SPS)
Dr. Ayhan Sakarya	Vice-Chairperson, SPS
Mr. Charles Glass	Chairperson, Radio Conference Subcommittee (RCS)
Mr. Brian Patten	Vice-Chairperson, RCS
Mr. Scott Jackson	Chairperson, Emergency Planning Subcommittee

NTIA Leadership and Staff

Mr. Steve Molina, Deputy Associate Administrator	NTIA/OSM
Mr. Robert Hite, Chief, Project Management Office	NTIA/Information Technology Division (ITD)
Mr. Bruce Lamb, Telecom. Specialist	OSM/International Spectrum Policy Division (ISPD)
Ms. Shelli Haskins, Telecom. Specialist	OSM/ISPD
Mr. Bruce Jacobs, Senior Spectrum Policy Advisor	OSM/Spectrum Affairs & Information Division (SAID)
Mr. Douglas Brake, Telecom. Specialist	OSM/SAID
Mr. Nickolas LaSorte, Spectrum Engineer	OSM/Spectrum Engineering & Analysis Division (SEAD)
Ms. April Lundy, Telecom. Specialist	OSM/SEAD
Mr. Gary Patrick, Spectrum Engineer	OSM/Strategic Planning Division

2. Classification

The Executive Secretary informed the participants that the classification level of the meeting is unclassified. He asked the attendees to turn off any recording devices and reminded all attendees that the discussions of the IRAC constitute pre-decisional discussions of the Executive Branch and information regarding those discussions are not generally releasable outside the Federal Government. He told the participants that this meeting is being recorded to assist with the drafting of summary meeting minutes. He also stated that an attendee’s voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. Doc. 45175/1 — Agenda for the 2060th Meeting, June 14, 2022
- b. Doc. 45175/2 — Agenda for the 2060th Meeting, June 14, 2022

The Chair started by noting item 3a. and asking the members if there were any proposed changes to item 3b.

The Executive Secretary added that item 9c. (pdf file) had initially been added to IRACNET without track changes but this has been rectified.

Hearing no additional updates or changes and without objection, the Chair approved item 3b.

4. Chairman’s Comments and Announcements

The Chair introduced Mr. Robert Hite from ITD to provide an update brief and answer any questions on the NTIA whitelisting project.

Mr. Hite provided an overview of the email sent out last month which requested IT points of contact (POC) within the IRAC agencies. Security controls on NTIA systems need to be implemented and the POC’s will enable NTIA to coordinate the changes. (b) (5), (b) (7)(E)

[Redacted]

(b) (5), (b) (7)(E)
[Redacted]

(b) (5), (b) (7)(E)
[Redacted]

The NSF Representative asked about the time frame for full implementation of this project. Mr. Hite responded that NTIA has been tasked to get this resolved as soon as possible but wants it

completed by the end of the Fiscal Year. The key now is to gain access to the IT POC's to be able to work through any current or potential future issues.

The Transportation Representative stated an initial IT POC has been provided but if NTIA has any issues to please reach out to the IRAC Representative for additional support. Mr. Hite thanked Transportation and stated that if the initial IT POC does not have the information needed, they should be able to at least point NTIA in the right direction to obtain it.

The Chair asked if there were any other questions. Hearing none, he thanked Mr. Hite for the update and answering the memberships current questions.

Continuing with the Chairman's Comments and Announcement, the Chair briefed that the NTIA/FCC Memorandum of Understanding (MOU) task force is still in the preliminary stages, but meetings are ongoing and hopefully an update will be available for the July IRAC meeting (July 12, 2022).

- a. Doc. 45172/1 — Scheduled Meetings for May 2022 - July 2022

The Chair introduced item 4a. noting that the PPSG meeting has been moved to July 22, 2022. He asked if there were any other changes to the item 4a.

The EPS Chair announced that the June EPS will be cancelled, and the notice was just sent out to the EPS membership.

Hearing no additional changes and without objection, the Chair noted item 4a.

5. Summary Minutes

- a. Doc. 45143/1 — Summary Minutes for the 2058th IRAC Meeting (April 12, 2022)
- b. Doc. 45143/2 — Summary Minutes for the 2058th IRAC Meeting (April 12, 2022)
- c. Doc. 45167/1 — Summary Minutes for the 2059th IRAC Meeting (May 10, 2022)

The Chair started by noting 5a. and asking if there were any updates to item 5b. Hearing nothing and without objection, the Chair approved item 5b.

Additionally, the Chair tabled item 5c. to give the membership additional time to review.

6. Factors Affecting Assignments in the (b) (5)

- a. Doc. 44973/1 — (b) (5)

- b. Doc. 44981/1 — (b) (5)

- c. Doc. 44982/1 — (b) (5)

- d. Doc. 44985/1 — (b) (5)

- e. Doc. 45023/1 — (b) (5)

The DAA (b) (5)

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled items 6 a-e to the July 12, 2022, IRAC meeting.

7. **Technical Feasibility of** (b) (5)

- a. Doc. 45015/2 — (b) (5)

The DAA stated along with item 6, this item would be tabled. (b) (5)

He also stated for item 6, as the two are related, (b) (5)

(b) (5)

(b) (5)

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled item 7a., to the July 12, 2022, IRAC meeting.

8. **Agency Counter-** (b) (5)

- a. Doc. 44614/1 — (b) (5)

- b. Doc. 44863/1 — (b) (5)

- c. Doc. 44864/1 — (b) (5)

- d. Doc. 44930/1 — (b) (5)

- e. Doc. 45136/1 — (b) (5)

The Chair stated nothing significant has happened on this topic in the last month.

The Chair asked if there were any comments on this item. Hearing none and without objection, the Chair tabled items 8 a-e to the July 14, 2022, IRAC meeting.

9. (b) (5)

- a. Doc. 45158/1 — (b) (5)

- b. Doc. 45163/1 — (b) (5)

- c. Doc. 45181/1 — (b) (5)

The Chair asked if there were any questions or comments on items 9a. or 9b. Hearing none, he asked the RCS Chair to introduce Doc 45181/1.

The RCS Chair introduced item 9c., which contains three agenda item proposals. Agenda item 1.7 (b) (5)

Agenda item 1.10 (b) (5)

Finally, agenda item 1.17 (b) (5) The RCS Chair is requesting the IRAC's consideration and approval of these documents and noted upcoming meetings that would require these proposals to be considered at prior to the CITEL (Inter-American Telecommunication Commission) in October.

The NASA Alt. Representative supported the RCS Chair and stated these documents need to be approved so they can start to be reconciled. They have been fully vetted and approved in the RCS and should be approved prior to the next IRAC meeting (July 12, 2022)

The Chair asked if there were any issues with approving items 9 a-c? Hearing none, and without objection the Chair approved items 9 a-c.

The Chair asked the RCS Chair if any more documents were planned. The RCS Chair concurred that there were, but not at this time.

10. (b) (5)

- a. Doc. 45176/1 — (b) (5)
- b. Doc. 45177/1 — (b) (5)
- c. Doc. 45178/1 — (b) (5)

The FAS Chair introduced items 10 a-c. The Frequency Assignment Subcommittee (FAS) approved the following items at its May 18, 2022, meeting. Item 10a. is an NTIA request (b) (5) Item 10b. is a Department of Homeland Security (DHS) request (b) (5) Item 10c. is a response to an IRAC Secretariat request (b) (5)

The FAS Chair added that five agency responses have been provided with their reasoning and justification for protecting the information within the supplement from public release.

The Chair asked if there were any objections to approving 10a. and 10b. Hearing none, and without objection the Chair approved items 10a. and 10b.

The Chair plans to table item 10c. to the July IRAC meeting as it is being worked internally to determine a solution on how the Manual Supplement should be marked. He hopes to have this information prior to the July meeting.

The Chair asked if there were any questions on item 10c. Hearing none, and without objection, the Chair tabled item 10c. to the July 12, 2022, IRAC meeting.

11. FCC Proceeding - (b) (5)

- a. Doc. 43738/1 — (b) (5)
- b. Doc. 44910/1 — (b) (5)
- c. Doc. 44913/1 — (b) (5)
- d. Doc. 44914/1 — (b) (5)
- e. Doc. 44975/1 — (b) (5)
- f. Doc. 44975/2 — (b) (5)
- g. Doc. 44996/1 — (b) (5)

The Chair stated this item was put on the agenda as we are expecting a draft NPRM for coordination and he asked the FCC Liaison for an update. The FCC Liaison stated that it is being worked but he did not have specific date as to when he would be able to share it.

The Chair noted item 11e. and asked if there were any questions or comments on this item. Hearing none, and without objection, the Chair tabled items 11 a-d and 11f. and 11g. to the July 12, 2022, IRAC meeting.

12. FCC Proceeding - (b) (5)

- a. Doc. 45144/1 — (b) (5)
- b. Doc. 45145/1 — (b) (5)
- c. Doc. 45160/1 — (b) (5)

The Chair stated there was no update on this item and that we were waiting for the Public Notice to be posted.

The Chair asked if there were any other questions or comments on this item. Hearing none, and without objection, the Chair tabled items 12 a-c to the July 12, 2022, IRAC meeting.

13. FCC Proceeding - (b) (5)

- a. Doc. 44776/1 — (b) (5)
- b. Doc. 44776/2 — (b) (5)
- c. Doc. 44792/1 — (b) (5)
- d. Doc. 44794/1 — (b) (5)

- e. Doc. 44795/1 — (b) (5)
- f. Doc. 44796/1 — (b) (5)
- g. Doc. 44893/1 — (b) (5)
- h. Doc. 44898/1 — (b) (5)
- i. Doc. 44963/1 — (b) (5)
- j. Doc. 44963/2 — (b) (5)

The Chair started by noting items 13a. and 13i. and stated he did not have an update on this proceeding.

The Chair asked if there were any other questions or comments on this item. Hearing none, and without objection, the Chair tabled items 13 b-h and 13j. to the July 12, 2022, IRAC meeting.

- 14. FCC Proceeding - (b) (5)**
- a. Doc. 45162/1 — (b) (5)
 - b. Doc. 45164/1 — (b) (5)
 - c. Doc. 45165/1 — (b) (5)
 - d. Doc. 45166/1 — (b) (5)
 - e. Doc. 45169/1 — (b) (5)
 - f. Doc. 45170/1 — (b) (5)
 - g. Doc. 45162/2 — (b) (5)
 - h. Doc. 45162/3 — (b) (5)

The Chair started by noting items 14a. and 14g.

The NSF Representative introduced item 14b., which provides NSF (b) (5)

The Transportation Representative introduced item 14c., as comments (b) (5)

(b) (5)

(b) (5)

The NASA Alt. Representative introduced item 14e., and echoes (b) (5)

Mr. Brake NTIA introduced the NTIA response (item 14f) and thanked (b) (5)

The Transportation Representative requested to be a part of the working group.

The Chair asked if there were any other questions or concerns on this item. Hearing none, and without objection, the Chair tabled items 14 b-f and 14h. to the July 12, 2022, IRAC meeting.

15. FCC Proceeding – (b) (5)

- a. Doc. 45115/2 — (b) (5)
- b. Doc. 45121/1 — (b) (5)
- c. Doc. 45122/1 — (b) (5)
- d. Doc. 45124/1 — (b) (5)
- e. Doc. 45115/3 — (b) (5)

The Chair started by noting item 15a.

Mr. Bruce Jacobs (NTIA) provided an update saying (b) (5)

The Transportation Representative asked if there was a final date that NTIA would accept comments. Mr. Jacobs stated there is not a date, but it depends on the input and how quickly they receive it as the draft will need to be sent out through the IRAC for final review.

The Air Force Alt. Representative asked if comments should be sent to the TSC or to the working group. Mr. Jacobs stated that we were just using the TSC's standing meeting date to

mesh with people's schedule. The draft should come from NTIA to the IRAC for coordination and then go back to NTIA. The IRAC Vice Chair concurred.

The Transportation Representative asked if the meeting would start before or after public comments are due. Mr. Jacobs replied that he expects the meeting to occur before comments are due.

The FAA Representative asked if NTIA could circulate the current draft as is and ask for comments with a very short turn around. Mr. Jacobs concurred that that would happen soon, but he was holding out for additional input.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 15 b-e to the July 12, 2022, IRAC meeting.

- 16. FCC Proceeding – (b) (5)**
- a. Doc. 41916/1 — (b) (5)
 - b. Doc. 42193/1 — (b) (5)
 - c. Doc. 44719/1 — (b) (5)
 - d. Doc. 44719/2 — (b) (5)
 - e. Doc. 44773/1 — (b) (5)
 - f. Doc. 44857/1 — (b) (5)
 - g. Doc. 44858/1 — (b) (5)
 - h. Doc. 44859/1 — (b) (5)
 - i. Doc. 44860/1 — (b) (5)
 - j. Doc. 44894/1 — (b) (5)
 - k. Doc. 45135/1 — (b) (5)
 - l. Doc. 45138/1 — (b) (5)
 - m. Doc. 45142/1 — (b) (5)

Mr. Jacobs (NTIA) stated that there is nothing significant to report on this proceeding and that they are still working on the document internally.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 16 a-m to the July 12, 2022, IRAC meeting.

17. FCC Proceeding - (b) (5)

- a. Doc. 44227/1 — (b) (5)
- b. Doc. 44490/1 — (b) (5)
- c. Doc. 44491/1 — (b) (5)
- d. Doc. 44513/1 — (b) (5)
- e. Doc. 44513/2 — (b) (5)

The FAA Representative provided an update on item 17. The internal review process for FAA is going slowly and he recommended tabling to August.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 17 a-e to the August 9, 2022, IRAC meeting.

18. FCC Proceeding - (b) (5)

- a. Doc. 43384/1 — (b) (5)
- b. Doc. 43385/1 — (b) (5)
- c. Doc. 43425/1 — (b) (5)
- d. Doc. 43478/1 — (b) (5)
- e. Doc. 43739/1 — (b) (5)
- f. Doc. 43990/1 — (b) (5)
- g. Doc. 43998/1 — (b) (5)
- h. Doc. 44033/1 — (b) (5)
- i. Doc. 44056/1 — (b) (5)
- j. Doc. 44231/1 — (b) (5)
- k. Doc. 44239/1 — (b) (5)

The Chair asked if there were any comments or updates on this proceeding or any objections to tabling it until August. The FAA Representative concurred.

Hearing no other comments and without objection, the Chair tabled items 18 a-k to the August 9, 2022, IRAC meeting.

19. FCC Proceeding - (b) (5)

- a. Doc. 44709/1 — (b) (5)
- b. Doc. 44709/2 — (b) (5)
- c. Doc. 44747/1 — (b) (5)

- d. Doc. 44774/1 — (b) (5)
- e. Doc. 44879/1 — (b) (5)
- f. Doc. 44937/1 — (b) (5)

The Chair started by noting item 19a., and then asked if there were any updates to this proceeding.

(b) (5)

Hearing no other comments and without objection, the Chair tabled items 19 b-f to the August 9, 2022, IRAC meeting.

20. FCC Proceeding — (b) (5)

- a. Doc. 43507/4 — (b) (5)
- b. Doc. 44370/1 — (b) (5)
- c. Doc. 44414/1 — (b) (5)
- d. Doc. 44415/1 — (b) (5)
- e. Doc. 44421/1 — (b) (5)
- f. Doc. 44444/1 — (b) (5)
- g. Doc. 44445/1 — (b) (5)
- h. Doc. 44459/1 — (b) (5)
Presentations.
- i. Doc. 44460/1 — (b) (5)
- j. Doc. 44625/1 — (b) (5)
- k. Doc. 44669/1 — (b) (5)
- l. Doc. 44732/1 — (b) (5)
- m. Doc. 44827/1 — (b) (5)
- n. Doc. 44868/1 — (b) (5)
- o. Doc. 44967/1 — (b) (5)
- p. Doc. 44983/1 — (b) (5)
- q. Doc. 45045/1 — (b) (5)
- r. Doc. 45134/1 — (b) (5)
- s. Doc. 45150/1 — (b) (5)

With the Policy Advisor being unavailable, the Chair asked if there were any updates to this proceeding.

Hearing no comments and without objection, the Chair tabled items 20 a-s to the July 12, 2022, IRAC meeting.

21. FCC Proceeding — (b) (5)

- a. Doc. 44419/1 — (b) (5)
- b. Doc. 44452/1 — (b) (5)
- c. Doc. 44955/1 — (b) (5)
- d. Doc. 44972/1 — (b) (5)
- e. Doc. 45026/1 — (b) (5)
- f. Doc. 45027/1 — (b) (5)
- g. Doc. 45046/1 — (b) (5)

The Vice-Chairman provided the update stating that work continues with AF, NASA, NOAA, and NSF on this complicated proposal. The agencies will be providing documents to highlight their issues (agree/disagree) with the current proposal.

The NSF Representative stated they are finalizing their document and working with the Vice-Chair on concerns.

The NASA Alt. Representative stated some comments were sent in late yesterday but if the Vice-Chair wants this converted to a formal document for July that will not be a problem. The Chair asked for it to be submitted to the IRAC.

The AF Alt. Representative stated a document is being worked and will hopefully be available by the July or August IRAC meeting.

The Vice-Chair stated once the input is received, he would schedule another meeting with AeroNet.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 21 a-g to the July 12, 2022, IRAC meeting.

22. FCC Proceeding - (b) (5)

- a. Doc. 44373/1 — (b) (5)

The FCC Liaison noted that there is nothing significant to report on this item. (b) (5)

The Chair asked if NTIA could see the draft Public Notice. The FCC Liaison stated that it was not a shared band and that NTIA was just tracking it for interest.

The Transportation Representative stated (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled item 22a to the July 12, 2022, IRAC meeting.

23. FCC Proceeding - (b) (5)

- a. Doc. 44881/1 — (b) (5)
- b. Doc. 44928/1 — (b) (5)
- c. Doc. 44938/1 — (b) (5)
- d. Doc. 45110/1 — (b) (5)

The FCC Liaison asked for an update on the letter. The Chair stated the letter is still under final review with the OSM front office.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 23 a-d to the July 12, 2022, IRAC meeting.

24. FCC Proceeding - (b) (5)

- a. Doc. 43965/1 — (b) (5)
- b. Doc. 44095/1 — (b) (5)
- c. Doc. 44130/1 — (b) (5)
- d. Doc. 44237/1 — (b) (5)
- e. Doc. 44238/1 — (b) (5)
- f. Doc. 44468/1 — (b) (5)
- g. Doc. 44867/1 — (b) (5)
- h. Doc. 45047/2 — (b) (5)
- i. Doc. 45123/1 — (b) (5)

The NASA Alt. Representative stated there was nothing significant to report and that a meeting was still being planned with the other federal agencies.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 24 a-i to the July 12, 2022, IRAC meeting.

25. FCC Proceeding - (b) (5)

- a. Doc. 44784/1 — (b) (5)
- b. Doc. 44813/1 — (b) (5)
- c. Doc. 44828/1 — (b) (5)
- d. Doc. 44829/1 — (b) (5)
- e. Doc. 44852/1 — (b) (5)
- f. Doc. 44984/1 — (b) (5)

- g. Doc. 45005/1 — (b) (5) [Redacted]
- h. Doc. 45006/1 — (b) (5) [Redacted]
- i. Doc. 45009/1 — (b) (5) [Redacted]
- j. Doc. 45010/1 — (b) (5) [Redacted]

The FCC Liaison provided an update that this item is still out for Commissioner votes before it can be released. He does not have an estimated time for completion.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 25 a-j to the July 12, 2022, IRAC meeting.

- 26. FCC Proceeding — (b) (5)** [Redacted]
- a. Doc. 44025/1 — (b) (5) [Redacted]
 - b. Doc. 44088/1 — (b) (5) [Redacted]
 - c. Doc. 44089/1 — (b) (5) [Redacted]
 - d. Doc. 44113/1 — (b) (5) [Redacted]
 - e. Doc. 45180/1 — (b) (5) [Redacted]

(b) (5) [Redacted]

The Chair noted that although these items will be tabled now, it will be considered approved on July 1, 2022. (b) (5) [Redacted]

The Commerce Representative added that this is a good opportunity for all agencies that have equities in the band to ensure their issues are known.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 26 a-e to the July 12, 2022, IRAC meeting.

27. FCC Proceeding - (b) (5)

- a. Doc. 45179/1 — (b) (5)

The FCC Liaison introduced item 27a.. (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled item 27a., to the July 12, 2022, IRAC meeting.

28. FCC Proceeding - (b) (5)

- a. Doc. 45070/1 — (b) (5)

- b. Doc. 45088/1 — (b) (5)

- c. Doc. 45090/2 — (b) (5)

- d. Doc. 45095/2 — (b) (5)

(b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled item 28 a-d to the July 12, 2022, IRAC meeting.

29. FCC Proceeding - (b) (5)

- a. Doc. 45019/1 — (b) (5)

- b. Doc. 45055/1 — (b) (5)

- c. Doc. 45058/1 — (b) (5)

- d. Doc. 45068/1 — (b) (5)

- e. Doc. 45069/1 — (b) (5)

(b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled item 29 a-e to the July 12, 2022, IRAC meeting.

30. Other Business

The Chair asked if the agencies had preference of staying on MS Teams or going back to MyMeetings. NSF, Navy, NASA, and Transportation all concurred with staying with Teams and that it facilitates a better meeting.



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
INTERDEPARTMENT RADIO ADVISORY COMMITTEE
Washington, D.C. 20230

2061st Interdepartment Radio Advisory Committee Meeting

Meeting Date: July 12, 2022, at 9:30 a.m.

Teleconference Only Meeting
[Microsoft Teams Link](#)

Phone Number: (b) (7)(E) or
Participant Code: (b) (7)(E)

1. Introductions and Roll Call

2. Classification

This meeting is Unclassified. It is being recorded to assist with drafting of summary meeting minutes. An attendee's voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. *Doc. 45208/1 — Agenda for the 2061st Meeting, July 12, 2022
- b. *Doc. 45208/2 — Agenda for the 2061st Meeting, July 12, 2022

4. Chairman's Comments and Announcements

- a. *Doc. 45207/1 — Scheduled Meetings for July 2022 - September 2022

5. Summary Minutes

- a. Doc. 45167/1 — Summary Minutes for the 2059th IRAC Meeting (May 10, 2022)
Tabled from 6/14/2022
- b. *Doc. 45182/1 — Summary Minutes for the 2060th IRAC Meeting (June 14, 2022)

6. Factors Affecting Assignments in the (b) (5)

- a. Doc. 44973/1 — (b) (5)
Tabled from 6/14/2022
- b. Doc. 44981/1 — (b) (5)
Tabled from 6/14/2022
- c. Doc. 44982/1 — (b) (5)
Tabled from 6/14/2022
- d. Doc. 44985/1 — (b) (5)
Tabled from 6/14/2022

e. Doc. 45023/1 — (b) (5)

Tabled from 6/14/2022

7. Technical Feasibility of (b) (5)

a. Doc. 45015/2 — (b) (5)

Tabled from 6/14/2022

8. Agency Counter (b) (5)

a. Doc. 44614/1 — (b) (5)

Tabled from 6/14/2022

b. Doc. 44863/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 44864/1 — (b) (5)

Tabled from 6/14/2022

d. Doc. 44930/1 — (b) (5)

Tabled from 6/14/2022

e. Doc. 45136/1 — (b) (5) df

Tabled from 6/14/2022

9. (b) (5)

a. Doc. 45178/1 — (b) (5)

Tabled from 6/14/2022

10. FCC Proceeding - (b) (5)

a. *Doc. 45197/1 — (b) (5)

11. FCC Proceeding - (b) (5)

a. Doc. 43738/1 — (b) (5)

Tabled from 6/14/2022

b. Doc. 44910/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 44913/1 — (b) (5)

Tabled from 6/14/2022

d. Doc. 44914/1 — (b) (5)

Tabled from 6/14/2022

e. Doc. 44975/1 — (b) (5)

Tabled from 6/14/2022

f. Doc. 44975/2 — (b) (5)

Tabled from 6/14/2022

g. Doc. 44996/1 — (b) (5)

Tabled from 6/14/2022

h. *Doc. 45187/1 — (b) (5)

i. *Doc. 45202/1 — (b) (5)

j. *Doc. 45211/1 — (b) (5)

12. FCC Proceeding - (b) (5)

a. Doc. 45144/1 — (b) (5)

Tabled from 6/14/2022

b. Doc. 45145/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 45160/1 — (b) (5)

d. *Doc. 45144/2 — (b) (5)

13. FCC Proceeding - (b) (5)

a. Doc. 44776/1 — (b) (5)

Tabled from 6/14/2022

b. Doc. 44776/2 — (b) (5)

Tabled from 6/14/2022

c. Doc. 44792/1 — (b) (5)

Tabled from 6/14/2022

d. Doc. 44794/1 — (b) (5)

Tabled from 6/14/2022

e. Doc. 44795/1 — (b) (5)

Tabled from 6/14/2022

f. Doc. 44796/1 — (b) (5)

Tabled from 6/14/2022

g. Doc. 44893/1 — (b) (5)

Tabled from 6/14/2022

h. Doc. 44898/1 — (b) (5)

Tabled from 6/14/2022

i. Doc. 44963/1 — (b) (5)

Tabled from 6/14/2022

j. Doc. 44963/2 — (b) (5)

Tabled from 6/14/2022

14. FCC Proceeding - (b) (5)

a. Doc. 45162/1 — (b) (5)

b. Doc. 45164/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 45165/1 — (b) (5)

Tabled from 6/14/2022

d. Doc. 45166/1 — (b) (5)

Tabled from 6/14/2022

e. Doc. 45169/1 — (b) (5)

Tabled from 6/14/2022

f. Doc. 45170/1 — (b) (5)

Tabled from 6/14/2022

g. Doc. 45162/2 — (b) (5)

Tabled from 6/14/2022

h. Doc. 45162/3 — (b) (5)

15. FCC Proceeding - (b) (5)

a. Doc. 45115/2 — (b) (5)

Tabled from 6/14/2022

b. Doc. 45121/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 45122/1 — (b) (5)

Tabled from 6/14/2022

d. Doc. 45124/1 — (b) (5)

Tabled from 6/14/2022

e. Doc. 45115/3 — (b) (5)

Tabled from 6/14/2022

f. *Doc. 45183/1 — (b) (5)

g. *Doc. 45184/1 — (b) (5)

h. *Doc. 45198/1 — (b) (5)

i. *Doc. 45183/2 — (b) (5)

16. FCC Proceeding — (b) (5)

a. Doc. 41916/1 — (b) (5)

Tabled from 6/14/2022

b. Doc. 42193 1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 44719/1 — (b) (5)

Tabled from 6/14/2022

d. Doc. 44719/2 — (b) (5)

Tabled from 6/14/2022

e. Doc. 44773 1 — (b) (5)

Tabled from 6/14/2022

f. Doc. 44857/1 — (b) (5)

Tabled from 6/14/2022

g. Doc. 44858/1 — (b) (5)

Tabled from 6/14/2022

h. Doc. 44859/1 — (b) (5)

(b) (5)

Tabled from 6/14/2022

i. Doc. 44860/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

j. Doc. 44894/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

k. Doc. 45135/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

l. Doc. 45138/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

m. Doc. 45142/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

17. FCC Proceeding — (b) (5)

[Redacted]

a. Doc. 44881/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

b. Doc. 44928/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

c. Doc. 44938/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

d. Doc. 45110/1 — (b) (5)

Tabled from 6/14/2022

e. *Doc. 45110/2 — (b) (5)

18. FCC Proceeding — (b) (5)

[Redacted]

a. Doc. 43507/4 — (b) (5)

[Redacted]

Tabled from 6/14/2022

b. Doc. 44370/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 44414/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

d. Doc. 44415/1 — (b) (5)

Tabled from 6/14/2022

e. Doc. 44421/1 — (b) (5)

Tabled from 6/14/2022

f. Doc. 44444/1 — (b) (5)

Tabled from 6/14/2022

g. Doc. 44445/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

h. Doc. 44459/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

i. Doc. 44460/1 — (b) (5)

Tabled from 6/14/2022

j. Doc. 44625/1 — (b) (5)

Tabled from 6/14/2022

k. Doc. 44669/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

l. Doc. 44732/1 — (b) (5)

[Redacted]

Tabled from 6/14/2022

m. Doc. 44827/1 — (b) (5)

Tabled from 6/14/2022

n. Doc. 44868/1 — (b) (5)

Tabled from 6/14/2022

o. Doc. 44967/1 — (b) (5)

Tabled from 6/14/2022

p. Doc. 44983/1 — (b) (5)

Tabled from 6/14/2022

q. Doc. 45045/1 — (b) (5)

Tabled from 6/14/2022

r. Doc. 45134/1 — (b) (5)

Tabled from 6/14/2022

s. Doc. 45150/1 — (b) (5)

Tabled from 6/14/2022

t. *Doc. 45209/1 — (b) (5)

19. FCC Proceeding - (b) (5)

[Redacted]

a. Doc. 44145/1 — (b) (5)

[Redacted]

Tabled from 4/12/2022

b. Doc. 44463/1 — (b) (5)

[Redacted]

Tabled from 4/12/2022

c. Doc. 44464/1 — (b) (5)

Tabled from 4/12/2022

d. Doc. 44830/1 — (b) (5)
Tabled from 4/12/2022

20. FCC Proceeding — (b) (5)

a. Doc. 44419/1 — (b) (5)
Tabled from 6/14/2022

b. Doc. 44452/1 — (b) (5)
Tabled from 6/14/2022

c. Doc. 44955/1 — (b) (5)
Tabled from 6/14/2022

d. Doc. 44972/1 — (b) (5)
Tabled from 6/14/2022

e. Doc. 45026/1 — (b) (5)
Tabled from 6/14/2022

f. Doc. 45027/1 — (b) (5)
Tabled from 6/14/2022

g. Doc. 45046/1 — (b) (5)
Tabled from 6/14/2022

h. *Doc. 45210/1 — (b) (5)

21. FCC Proceeding — (b) (5)

a. Doc. 44610/1 — (b) (5)
Tabled from 5/10/2022

b. Doc. 44653/1 — (b) (5)
Tabled from 5/10/2022

c. Doc. 44693/1 — (b) (5)
Tabled from 5/10/2022

d. Doc. 44902/1 — (b) (5)
Tabled from 5/10/2022

e. Doc. 44903/1 — (b) (5)
Tabled from 5/10/2022

22. FCC Proceeding — (b) (5)

a. Doc. 44373/1 — (b) (5)

Tabled from 6/14/2022

23. FCC Proceeding - (b) (5)

a. Doc. 43965/1 — (b) (5)

Tabled from 6/14/2022

b. Doc. 44095/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 44130/1 — (b) (5)

Tabled from 6/14/2022

d. Doc. 44237/1 — (b) (5)

Tabled from 6/14/2022

e. Doc. 44238/1 — (b) (5)

Tabled from 6/14/2022

f. Doc. 44468/1 — (b) (5)

Tabled from 6/14/2022

g. Doc. 44867/1 — (b) (5)

Tabled from 6/14/2022

h. Doc. 45047/2 — (b) (5)

Tabled from 6/14/2022

i. Doc. 45123/1 — (b) (5)

Tabled from 6/14/2022

24. FCC Proceeding - (b) (5)

a. Doc. 44784/1 — (b) (5)

Tabled from 6/14/2022

b. Doc. 44813/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 44828/1 — (b) (5)

Tabled from 6/14/2022

d. Doc. 44829/1 — (b) (5)

Tabled from 6/14/2022

e. Doc. 44852/1 — (b) (5)

Tabled from 6/14/2022

f. Doc. 44984/1 — (b) (5)

Tabled from 6/14/2022

g. Doc. 45005/1 — (b) (5)

Tabled from 6/14/2022

h. Doc. 45006/1 — (b) (5)

Tabled from 6/14/2022

i. Doc. 45009/1 — (b) (5)

Tabled from 6/14/2022

j. Doc. 45010/1 — (b) (5)

Tabled from 6/14/2022

25. FCC Proceeding — (b) (5)

a. Doc. 44025/1 — (b) (5)

Tabled from 6/14/2022

b. Doc. 44088/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 44089/1 — (b) (5)

Tabled from 6/14/2022

d. Doc. 44113/1 — (b) (5)

Tabled from 6/14/2022

e. Doc. 45180/1 — (b) (5)

Tabled from 6/14/2022

26. FCC Proceeding — (b) (5)

a. Doc. 45179/1 — (b) (5)

Tabled from 6/14/2022

b. *Doc. 45199/1 — (b) (5)

27. FCC Proceeding — (b) (5)

a. Doc. 45070/1 — (b) (5)

Tabled from 6/14/2022

b. Doc. 45088/1 — (b) (5)

Tabled from 6/14/2022

c. Doc. 45090/1 — (b) (5) [Redacted]

Tabled from 6/14/2022

d. Doc. 45090/2 — (b) (5) [Redacted]

Tabled from 6/14/2022

e. Doc. 45095/1 — (b) (5) [Redacted]

Tabled from 6/14/2022

f. Doc. 45095/2 — (b) (5) [Redacted]

Tabled from 6/14/2022

g. *Doc. 45070/2 — (b) (5) [Redacted]

28. FCC Proceeding - (b) (5) [Redacted]

a. Doc. 45019/1 — (b) (5) [Redacted]
Tabled from 6/14/2022

b. Doc. 45055/1 — (b) (5) [Redacted]
Tabled from 6/14/2022

c. Doc. 45058/1 — (b) (5) [Redacted]
Tabled from 6/14/2022

d. Doc. 45068/1 — (b) (5) [Redacted]

Tabled from 6/14/2022

e. Doc. 45069/1 — (b) (5) [Redacted]
Tabled from 6/14/2022

29. Other Business



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
 INTERDEPARTMENT RADIO ADVISORY COMMITTEE
 Washington, D.C. 20230

2061st Interdepartment Radio Advisory Committee Meeting

The National Telecommunications and Information Administration (NTIA) convened the 2061st meeting of the Interdepartment Radio Advisory Committee (IRAC) on July 12, 2022, starting at 9:30 a.m. This meeting was conducted by Microsoft Teams and teleconference only and adjourned at 11:20 a.m.

1. Introductions and Roll Call

IRAC OFFICERS AND SUPPORT

Mr. Alan Frable	Chairperson
Mr. Tom Snead	Executive Secretary
Mr. John Darden	Assistant Executive Secretary

MEMBER-AGENCY REPRESENTATIVES

Mr. Robert Parker, Representative	Agriculture
Mr. Perry Jones, Alt. Representative	Agriculture
Ms. Thu Luu, Representative	Air Force (AF)
Mr. Stevan Jovancevic, Alt. Representative	Army
Ms. Jodi Cramer, Alt. Representative	Coast Guard (CG)
Mr. Ivan Navarro, Representative	Commerce
Mr. Bradford Benbow, Representative	Energy (DOE)
Mr. Don Nellis, Representative	Federal Aviation Administration
Mr. Robert Hamlett, Alt. Representative	Department of Homeland Security (DHS)
Mr. Bryan Wright, Representative	Interior
Mr. Mark Powell, Alt. Representative	Interior
Mr. Anthony Frey, Alt. Representative	Interior
Mr. Dean Otey, Alt. Representative	Interior
Mr. Quan Vu, Representative	Justice
Mr. John Zuzek, Alt. Representative	Nat'l Aeronautics & Space Admin. (NASA)
Mr. Jerome Foreman, Representative	Navy
Mr. Arthur DeLeon, Alt. Representative	Navy
CW04 Jose Figueroa, Alt. Representative	Navy (US Marine Corps)
Mr. Jonathan Williams, Representative	National Science Foundation (NSF)
Ms. Wanda Covington-Ragsdale, Representative	Transportation (DOT)
Ms. Karen Van Dyke, Alt. Representative	DOT
Ms. Christina McCann, Representative	Treasury

FEDERAL COMMUNICATIONS COMMISSION (FCC) LIAISON

Mr. Michael Ha, Liaison	FCC
Mr. Serey Thai, Alt. Liaison	FCC

OBSERVERS

Mr. Francisco Balbuena Guzman, Observer	Defense Information Systems Agency (DISA)
Mr. Robert Channas, Alt Observer	DISA

ASSISTANTS, CONSULTANT, ADVISORS, VISITORS OR GUESTS

Mr. Andrew Pencek, Contractor	DOE/B. Benbow
Mr. Jim Mentzer, Contractor	DHS/R. Hamlett
Mr. Larry Reed, Contractor	NASA/J. Zuzek
Dr. David Morris, Government	NSF/J. Williams
Mr. Ali Nassib, Government	FCC/M. Ha
Mr. Matthew Flack, Government	FCC/M. Ha
Mr. Alex Dias-Martinez, Government	FCC/M. Ha
Mr. Chris Lusk, Contractor	DISA/F. Balbuena Guzman

SUBCOMMITTEE AND AD HOC OFFICERS

Mr. John McFall	Chairperson, Frequency Assignment Subcommittee (FAS)
Mr. Greg Melz	Vice-Chairperson, FAS
Mr. Robert Denny	Chairperson, Spectrum Planning Subcommittee (SPS)
Dr. Ayhan Sakarya	Vice-Chairperson, SPS
Mr. Charles Glass	Chairperson, Radio Conference Subcommittee
Mr. Robert Avery	Chairperson, Space Systems Subcommittee
Mr. Fredrick Matos	Convener, Ad Hoc 1965

NTIA Leadership and Staff

Mr. Steve Molina, Deputy Associate Administrator, Spectrum Planning and Policy (DAA/SPP)	NTIA/OSM
Mr. Derek Khlopin, Deputy Associate Administrator, Spectrum Management (DAA/SM)	NTIA/OSM
Mr. Scott Patrick, Executive Officer	NTIA/OSM
Mr. Bruce Jacobs, Senior Spectrum Policy Advisor	OSM/Spectrum Affairs & Information Division (SAID)
Mr. Douglas Brake, Telecommunications Specialist	OSM/SAID
Mr. Antonio Richardson, Telecommunications Specialist	OSM/SAID

2. Classification

The Executive Secretary informed the participants that the classification level of the meeting is unclassified. He asked the attendees to turn off any recording devices and reminded all attendees that the discussions of the IRAC constitute pre-decisional discussions of the Executive Branch and information regarding those discussions are not generally releasable outside the Federal Government. He told the participants that this meeting is being recorded to assist with the drafting of summary meeting minutes. He also stated that an attendee's voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. Doc. 45208/1 — Agenda for the 2061st Meeting, July 12, 2022

- b. Doc. 45208/2 — Agenda for the 2061st Meeting, July 12, 2022

The Acting Chair started by noting item 3a. He asked the members if there were any changes to item 3b. Hearing none, he stated that he will be adding item 4b. (Doc. 45212/1) to the Chairman's Comments and Announcements. He asked if there were any objections to approving Doc. 45208/2 as amended.

Hearing no additional updates or changes and without objection, the Chair approved item 3b.

4. Chairman's Comments and Announcements

- a. Doc. 45207/1 — Scheduled Meetings for July 2022 - September 2022

The Chair introduced item 4a. noting that Ad Hoc's 170 and 181 are cancelled for July. Additionally, there is a PPSG meeting scheduled for next Friday (July 22, 2022). Finally, and not annotated on the document, there is a CSMAC (Commerce Spectrum Management Advisory Committee) meeting this Friday (July 15, 2022). He asked Mr. Antonio Richardson to provide an update on the CSMAC meeting.

Mr. Richardson (NTIA) started by thanking the agencies (NASA, DoD, Transportation, and Energy) for the questions provided for this current cycle's CSMAC meeting. The topics covered this cycle will be: 1) Spectrum Relocation Fund; 2) 6G and Beyond; 3) Electromagnetic Compatibility Improvements and; 4) Ultra-Wideband. Details are posted on NTIA's website (<https://www.ntia.gov/category/csmac>).

The Chair asked if there were any questions or changes to item 4a. Hearing none and without objection, the Chair noted item 4a.

- b. Doc. 45212/1 — (b) (5)

The Chair introduced item 4b. as an FCC Public Notice seeking comment on ContiTech's waiver request. It was sent out on the ListServ yesterday (July 11, 2022) and we have a relatively short window to provide comments. This is for Public Comments which are needed by next Tuesday (July 19, 2022). The Chair asked for a quick notification in the next day or two if any agency plans to submit comments. Further, he asked if there were any comments or questions at this time.

Hearing none and without objection, the Chair tabled item 4b. to the August 9, 2022, IRAC meeting.

5. Summary Minutes

- a. Doc. 45167/1 — Summary Minutes for the 2059th IRAC Meeting (May 10, 2022)
- b. Doc. 45182/1 — Summary Minutes for the 2060th IRAC Meeting (June 14, 2022)

The Chair asked if there were any updates to item 5a. Hearing none and without objection, the Chair approved item 5a.

Additionally, the Chair tabled item 5b. to the August 9, 2022, IRAC meeting to give the membership additional time to review.

6. Factors Affecting Assignments in the (b) (5)

- a. Doc. 44973/1 — (b) (5)
- b. Doc. 44981/1 — (b) (5)
- c. Doc. 44982/1 — (b) (5)
- d. Doc. 44985/1 — (b) (5)
- e. Doc. 45023/1 — (b) (5)

The DAA provided a quick update stating (b) (5) but to please let him know if any issues arise.

The Chair asked if there were any other questions or concerns on this item. Hearing none and without objection, the Chair tabled items 6 a-e to the August 9, 2022, IRAC meeting.

7. Technical Feasibility of (b) (5)

- a. Doc. 45015/2 — (b) (5)

The DAA/SPP stated along with item 6, this item is still being held in abeyance. (b) (5)

(b) (5)

(b) (5)

(b) (5)

(b) (5)

(b) (5)

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled item 7a., to the August 9, 2022, IRAC meeting.

8. Agency Counter - (b) (5)

- a. Doc. 44614/1 — (b) (5)
- b. Doc. 44863/1 — (b) (5)
- c. Doc. 44864/1 — (b) (5)
- d. Doc. 44930/1 — (b) (5)
- e. Doc. 45136/1 — (b) (5)

The OSM Executive Officer stated that congressional hearings for developing legislation on CUAS were imminent (potentially this week). With this progress, NTIA will resume discussions on this topic with agencies and that he will reach out to Energy and the FAA soon to schedule a meeting.

The Chair asked if there were any comments on this item. Hearing none and without objection, the Chair tabled items 8 a-e to the August 9, 2022, IRAC meeting.

9. (b) (5)

- a. Doc. 45178/1 — (b) (5)

The Chair stated internal discussion on this item are ongoing within OSM and Commerce and it should be tabled. He asked if there were any questions or item 9a.

Hearing none, and without objection, the Chair tabled item 9a., to the August 9, 2022, IRAC meeting.

10. FCC Proceeding - (b) (5)

- a. Doc. 45197/1 — (b) (5)

The Chair introduced item 10a. and stated agency comments were due last Friday (July 8, 2022). AF and NASA responded that they had no comments.

(b) (5)
The Chair stated the response will be provided today. He asked if there were any other questions or comments on this item.

Hearing none, and without objection, the Chair tabled item 10a., to the August 9, 2022, IRAC meeting.

11. FCC Proceeding – (b) (5)

a. Doc. 43738/1 — (b) (5)

b. Doc. 44910/1 — (b) (5)

c. Doc. 44913/1 — (b) (5)

d. Doc. 44914/1 — (b) (5)

e. Doc. 44975/1 — (b) (5)

f. Doc. 44975/2 — (b) (5)

g. Doc. 44996/1 — (b) (5)

h. Doc. 45187/1 — (b) (5)

i. Doc. 45202/1 — (b) (5)

j. Doc. 45211/1 — (b) (5)

The FCC Liaison introduced item 11h as proposed rulemaking for (b) (5)

Finally, he thanked NTIA for the comments provided on this item.

The FAA Representative introduced item 11i, containing comments (b) (5)

(b) (5)

Mr. Jacobs (NTIA) introduced item 11j, as the NTIA comments to the (b) (5)
The plan is to work together on agreed upon revised language by Labor Day.

The Transportation Representative stated that they fully stand with FAA on this issue.

The Chair asked if there were any questions or comments on this item. Hearing none, and without objection, the Chair noted items 11e. and tabled items 11 a-d and 11 f-i to the August 9, 2022, IRAC meeting.

12. FCC Proceeding - (b) (5)

- a. Doc. 45144/1 — (b) (5)
- b. Doc. 45145/1 — (b) (5)
- c. Doc. 45160/1 — (b) (5)
- d. Doc. 45144/2 — (b) (5)

The Chair started by noting item 12a.

The FCC Liaison introduced item 12d. as the PN to update the record on this topic. Mr. Jacobs added that NTIA and Coast Guard are engaged with FCC on this topic and there was nothing significant to report at this time.

The Chair asked if there were any other questions or comments on this item. Hearing none, and without objection, the Chair noted item 12a. and tabled items 12 b-d to the August 9, 2022, IRAC meeting.

13. FCC Proceeding - (b) (5)

- a. Doc. 44776/1 — (b) (5)
- b. Doc. 44776/2 — (b) (5)
- c. Doc. 44792/1 — (b) (5)
- d. Doc. 44794/1 — (b) (5)
- e. Doc. 44795/1 — (b) (5)
- f. Doc. 44796/1 — (b) (5)

- g. Doc. 44893/1 — (b) (5)
- h. Doc. 44898/1 — (b) (5)
- i. Doc. 44963/1 — (b) (5)
- j. Doc. 44963/2 — (b) (5)

The Chair started by noting items 13a. and 13i. and asked if there was anything new on this item. Mr. Jacobs added that there was nothing significant to report.

The Transportation Representative asked FCC if they were waiting to move on this item after completion of item 12. The FCC Liaison stated it was premature to say and once the record was collected a determination would be made on how to proceed.

The Chair asked if there were any other questions or comments. Hearing none, and without objection, the Chair noted items 13a. and 13i. and tabled items 13 b-h and 13j. to the August 9, 2022, IRAC meeting.

- 14. FCC Proceeding - (b) (5)**
- a. Doc. 45162/1 — (b) (5)
 - b. Doc. 45164/1 — (b) (5)
 - c. Doc. 45165/1 — (b) (5)
 - d. Doc. 45166/1 — (b) (5)
 - e. Doc. 45169/1 — (b) (5)
 - f. Doc. 45170/1 — (b) (5)
 - g. Doc. 45162/2 — (b) (5)
 - h. Doc. 45162/3 — (b) (5)

Mr. Brake (NTIA) provided an update on this item. Comments are due to FCC on July 27, 2022. There was a productive meeting with the working group yesterday with participation by DISA, Transportation, NASA, NSF, and FAA. He is finalizing the draft incorporating feedback from yesterday's meeting and will be circulating it for IRAC review shortly. NTIA welcomes steps to (b) (5). International issues will be highlighted as well.

The Chair asked if there were any other questions or concerns on this item. Hearing none, and without objection, the Chair noted items 14 a-g and tabled 14h. to the August 9, 2022, IRAC meeting.

- 15. FCC Proceeding - (b) (5)**

- a. Doc. 45115/2 — (b) (5)
- b. Doc. 45121/1 — (b) (5)
- c. Doc. 45122/1 — (b) (5)
- d. Doc. 45124/1 — (b) (5)
- e. Doc. 45115/3 — (b) (5)
- f. Doc. 45183/1 — (b) (5)
- g. Doc. 45184/1 — (b) (5)
- h. Doc. 45198/1 — (b) (5)
- i. Doc. 45183/2 — (b) (5)

The Transportation Representative introduced items 15g. and 15h. Item 15g. was a suggested introduction for the initial NTIA response. Since it was not used she asked if would be considered during the reply comment submission (b) (5)

Item 15h. notes (b) (5)

For example, in the case of (b) (5)

Mr. Jacobs introduced item 15i. as the (b) (5)

Transportation thanked NTIA for working this item and being understanding of their position.

(b) (5)

r. Jacobs

concurd and stated this is the type of information that is useful for NTIA when developing the response.

The Navy Representative concurred with AF and stated they are part of a DOD Working Group discussing this item and will reengage and potentially provide their comments directly. (b) (5)

[REDACTED]

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair noted items 15 a-d and 15f. and tabled items 15e. and 15 g-i to the August 9, 2022, IRAC meeting.

16. FCC Proceeding – (b) (5)

- a. Doc. 41916/1 – (b) (5)
- b. Doc. 42193/1 – (b) (5)
- c. Doc. 44719/1 – (b) (5)
- d. Doc. 44719/2 – (b) (5)
- e. Doc. 44773/1 – (b) (5)
- f. Doc. 44857/1 – (b) (5)
- g. Doc. 44858/1 – (b) (5)
- h. Doc. 44859/1 – (b) (5)
- i. Doc. 44860/1 – (b) (5)
- j. Doc. 44894/1 – (b) (5)
- k. Doc. 45135/1 – (b) (5)
- l. Doc. 45138/1 – (b) (5)
- m. Doc. 45142/1 – (b) (5)

Mr. Jacobs (NTIA) stated that there is nothing significant to report on this proceeding and that they are still working on the document internally. He asked the FCC Liaison if there was any sense of urgency on this topic. The FCC Liaison stated there is a continued interest on this item and any comments received will be used to formulate the Commission’s next step.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair noted items 16 a-d and tabled items 16 e-m to the August 9, 2022, IRAC meeting.

17. FCC Proceeding - (b) (5)

- a. Doc. 44881/1 — (b) (5)
- b. Doc. 44928/1 — (b) (5)
- c. Doc. 44938/1 — (b) (5)
- d. Doc. 45110/1 — (b) (5)
- e. Doc. 45110/2 — (b) (5)

The Chair introduced item 17e. as the signed letter posted to the FCC for this topic. Mr. Patrick thanked everyone for their patience while this letter was being finalized/filed.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair noted items 17 b-e and tabled item 17a. to the August 9, 2022, IRAC meeting.

18. FCC (b) (5)

- a. Doc. 43507/4 — (b) (5)
- b. Doc. 44370/1 — (b) (5)
- c. Doc. 44414/1 — (b) (5)
- d. Doc. 44415/1 — (b) (5)
- e. Doc. 44421/1 — (b) (5)
- f. Doc. 44444/1 — (b) (5)
- g. Doc. 44445/1 — (b) (5)
- h. Doc. 44459/1 — (b) (5)
- i. Doc. 44460/1 — (b) (5)
- j. Doc. 44625/1 — (b) (5)
- k. Doc. 44669/1 — (b) (5)
- l. Doc. 44732/1 — (b) (5)
- m. Doc. 44827/1 — (b) (5)
- n. Doc. 44868/1 — (b) (5)
- o. Doc. 44967/1 — (b) (5)
- p. Doc. 44983/1 — (b) (5)
- q. Doc. 45045/1 — (b) (5)
- r. Doc. 45134/1 — (b) (5)
- s. Doc. 45150/1 — (b) (5)

t. Doc. 45209/1 — (b) (5)

The Chair introduced item 18t. as the most recent (b) (5)
PNT would like any questions agencies may have by this Friday (July 15, 2022).

(b) (5) Alternate Representative (b) (5)

(b) (5) Representative (b) (5)

Alternate Representative stated just for clarification that DHS will be providing questions to PNT by Friday, but should they be including anyone on the cc line for situational awareness. The OSM Executive Officer stated that copying other agencies would be preferable given the circumstances.

(b) (5) Representative asked if the guidance could be assigned a document number and made part of this agenda item. The OSM Executive Officer added we would take that under advisement and discuss it internally.

(b) (5) Representative stated the same and that it should be assigned a document number. Additionally, (b) (5)

(b) (5) Representative asked (b) (5)

Additionally, PNT has been involved and understands the nature of what is being proposed and the nature of federal agencies questions.

The Chair asked if there were any further questions or concerns. Hearing none and without objection, the Chair tabled items 18 a-t to the August 9, 2022, IRAC meeting.

19. FCC Proceeding - (b) (5)

- a. Doc. 44145/1 — (b) (5)
- b. Doc. 44463/1 — (b) (5)
- c. Doc. 44464/1 — (b) (5)
- d. Doc. 44830/1 — (b) (5)

The Chair asked if there were any comments or questions on this item and if there were any issues with tabling it until September.

Hearing none and without objection, the Chair tabled items 19 a-d to the September 13, 2022, IRAC meeting.

20. FCC Proceeding - (b) (5)

- a. Doc. 44419/1 — (b) (5)
- b. Doc. 44452/1 — (b) (5)
- c. Doc. 44955/1 — (b) (5)
- d. Doc. 44972/1 — (b) (5)
- e. Doc. 45026/1 — (b) (5)
- f. Doc. 45027/1 — (b) (5)
- g. Doc. 45046/1 — (b) (5)
- h. Doc. 45210/1 — (b) (5)

The NASA Alt. Representative introduced item 20h. as the formal NASA/NOAA response requested by the Vice-Chair based upon email discussions back and forth over the past month.

(b) (5)

The OSM Executive Officer asked the FCC Liaison on the potential timing for this proceeding going forward. The FCC Liaison stated this information will have to be taken back to determine how to proceed on this item so there is not a known schedule at this time. (b) (5)

(b) (5)

The AF Representative stated they are working on an official response but heard during a meeting that for future coordination processes, they would use an existing FCC portal. The AF would like a walk-through of the process and to know how would this work for classified information? The FCC Liaison said the portal would be unclassified only and that further

discussions would need to take place for handling classified data. Additionally, the (b) (5)

The NSF Representative thanked NASA and NOAA for this input. NSF does have research that is dependent upon earth sensing systems, and they do support NASA/NOAA's concerns. For Radio Astronomy, there is an outstanding question from NTIA that is still being worked.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 20 a-h to the August 9, 2022, IRAC meeting.

21. FCC Proceeding - (b) (5)

- a. Doc. 44610/1 — (b) (5)
- b. Doc. 44653/1 — (b) (5)
- c. Doc. 44693/1 — (b) (5)
- d. Doc. 44902/1 — (b) (5)
- e. Doc. 44903/1 — (b) (5)

The Chair asked if there were any updates on this item and if it could be tabled until September.

The AF Representative asked the FCC Liaison (b) (5)

Hearing none and without objection, the Chair tabled items 21 a-e to the September 13, 2022, IRAC meeting.

22. FCC Proceeding - (b) (5)

- a. Doc. 44373/1 — (b) (5)

The FCC Liaison noted that a Public Notice is still being drafted.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled item 22a., to the August 9, 2022, IRAC meeting.

23. FCC Proceeding - (b) (5)

- a. Doc. 43965/1 — (b) (5)
- b. Doc. 44095/1 — (b) (5)

- c. Doc. 44130/1 — (b) (5)
- d. Doc. 44237/1 — (b) (5)
- e. Doc. 44238/1 — (b) (5)
- f. Doc. 44468/1 — (b) (5)
- g. Doc. 44867/1 — (b) (5)
- h. Doc. 45047/2 — (b) (5)
- i. Doc. 45123/1 — (b) (5)

The NASA Alt. Representative stated there was nothing significant to report and that a meeting was not necessary (b) (5)

Mr. Matos stated a letter of extensive technical questions has been sent out and that they were likely working on the analysis to answer them.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 23 a-i to the August 9, 2022, IRAC meeting.

24. FCC Proceeding - (b) (5)

- a. Doc. 44784/1 — (b) (5)
- b. Doc. 44813/1 — (b) (5)
- c. Doc. 44828/1 — (b) (5)
- d. Doc. 44829/1 — (b) (5)
- e. Doc. 44852/1 — (b) (5)
- f. Doc. 44984/1 — (b) (5)
- g. Doc. 45005/1 — (b) (5)
- h. Doc. 45006/1 — (b) (5)
- i. Doc. 45009/1 — (b) (5)
- j. Doc. 45010/1 — (b) (5)

The FCC Liaison provided an update that this item is still out for Commissioner votes before it can be released. He does not have an estimated time for completion.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 24 a-j to the August 9, 2022, IRAC meeting.

25. FCC Proceeding - (b) (5)

- a. Doc. 44025/1 — (b) (5)

- b. Doc. 44088/1 — (b) (5)
- c. Doc. 44089/1 — (b) (5)
- d. Doc. 44113/1 — (b) (5)
- e. Doc. 45180/1 — (b) (5)

The Chair noted that last month the NOAA study was circulated and that no comments were received by the July 1, 2022, suspense. The DAA/SPP added the study is now being routed through NTIA for submission over to NTIA.

The Chair asking if there were any concerns with tabling item 25a., and noting 25 b-e.

Hearing none and without objection, the Chair noted items 25 b-e and tabled item 25a., to the August 9, 2022, IRAC meeting.

26. FCC Proceeding — (b) (5)

- a. Doc. 45179/1 — (b) (5)
- b. Doc. 45199/1 — (b) (5)

The Transportation Representative introduced item 26b. (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 26 a-b to the August 9, 2022, IRAC meeting.

27. FCC Proceeding - (b) (5)

- a. Doc. 45070/1 — (b) (5)
- b. Doc. 45088/1 — (b) (5)
- c. Doc. 45090/2 — (b) (5)
- d. Doc. 45095/2 — (b) (5)
- e. Doc. 45070/2 — (b) (5)

The Chair introduced item 27e. as the FCC Order for Kongsberg

The Chair asked if there were any other questions on this proceeding or if anyone had any objections to note this entire item closing it out. Hearing none and without objection, the Chair noted items 27 a-e.

28. FCC Proceeding - (b) (5)

- a. Doc. 45019/1 — (b) (5)
- b. Doc. 45055/1 — (b) (5)

- c. Doc. 45058/1 — (b) (5)
- d. Doc. 45068/1 — (b) (5)
- e. Doc. 45069/1 — (b) (5)

The Chair stated there is nothing significant to report on this item and the waiver conditions are still being discussed.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled item 28 a-e to the August 9, 2022, IRAC meeting.

29. Other Business

The Navy Representative thanked NTIA for the move to Teams.

The AF Representative asked about agency briefings in October. The Chair stated he would get back next month but he had mentioned last year that agencies could give briefings at any time through the year.

Mr. Glass stated proposals from RCS will be coming to the IRAC for the August meeting and he stated that due to the short time between the RCS and IRAC meetings, agencies should get with their RCS representatives to get an early read on them as a short approval window will be required so that they can be sent to the FCC to make the September WAC (WRC Advisory Committee) meeting.



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
INTERDEPARTMENT RADIO ADVISORY COMMITTEE
Washington, D.C. 20230

2062nd Interdepartment Radio Advisory Committee Meeting

Meeting Date: August 9, 2022, at 9:30 a.m.

Teleconference Only Meeting

[Microsoft Teams Link](#)

or

Phone Number: (b) (7)(E) Participant Code: (b) (7)(E)
(b) (7)(E)

1. Introductions and Roll Call

2. Classification

This meeting is Unclassified. It is being recorded to assist with drafting of summary meeting minutes. An attendee's voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. *Doc. 45229/1 — Agenda for the 2062nd Meeting, August 9, 2022
- b. *Doc. 45229/2 — Agenda for the 2062nd Meeting, August 9, 2022

4. Chairman's Comments and Announcements

- a. *Doc. 45219/1 — PPSG Meeting Slides for July 22, 2022
- b. *Doc. 45220/1 — Scheduled Meetings for August 2022 - October 2022
- c. *Doc. 45234/1 — Interagency Update on NTIA-FCC Spectrum MoU (July 29, 2022)
- d. *Doc. 45236/1 — NTIA-FCC Spectrum MoU (August 1, 2022)

5. Summary Minutes

- a. Doc. 45182/1 — Summary Minutes for the 2060th IRAC Meeting (June 14, 2022)
Tabled from 7/12/2022
- b. *Doc. 45217/1 — Summary Minutes for the 2061st IRAC Meeting (July 12, 2022)

6. Factors Affecting Assignments in the (b) (5)

a. Doc. 44973/1 — (b) (5)

b. Doc. 44981/1 — (b) (5)

c. Doc. 44982/1 — (b) (5) [Redacted]

d. Doc. 44985/1 — (b) (5) [Redacted]

e. Doc. 45023/1 — (b) (5) [Redacted]

7. Technical Feasibility of (b) (5)

a. Doc. 45015/2 — (b) (5) [Redacted]

8. Agency Counter- (b) (5)

a. Doc. 44614/1 — (b) (5) [Redacted]

b. Doc. 44863/1 — (b) (5) [Redacted]

c. Doc. 44864/1 — (b) (5) [Redacted]

d. Doc. 44930/1 — (b) (5) [Redacted]

e. Doc. 45136/1 — (b) (5) [Redacted]

9. RCS Draft Proposals for WRC-23

a. *Doc. 45238/1 — (b) (5) [Redacted]

10. (b) (5)

a. *Doc. 45226/1 — (b) (5) [Redacted]

b. *Doc. 45227/1 — (b) (5) [Redacted]

c. *Doc. 45228/1 — (b) (5) [Redacted]

11. (b) (5)

a. Doc. 45178/1 — (b) (5) [Redacted]

12. FCC Proceeding - (b) (5)

a. Doc. 45145/1 — (b) (5)

b. Doc. 45160/1 — (b) (5)

c. Doc. 45144/2 — (b) (5)

d. *Doc. 45232/1 — (b) (5)

e. *Doc. 45233/1 — (b) (5)

13. FCC Proceeding - (b) (5)

a. Doc. 44776/2 — (b) (5)

b. Doc. 44792/1 — (b) (5)

c. Doc. 44794/1 — (b) (5)

d. Doc. 44795/1 — (b) (5)

e. Doc. 44796/1 — (b) (5)

f. Doc. 44893/1 — (b) (5)

g. Doc. 44898/1 — (b) (5)

h. Doc. 44963/2 — (b) (5)

14. FCC Proceeding - (b) (5)

a. Doc. 45162/3 — (b) (5)

b. *Doc. 45218/1 — (b) (5)

c. *Doc. 45221/1 — (b) (5)

d. *Doc. 45222/1 — (b) (5)

e. *Doc. 45218/2 — (b) (5)

f. *Doc. 45235/1 — (b) (5)

15. FCC Proceeding — (b) (5)

a. Doc. 45115/3 — (b) (5)

b. Doc. 45184/1 — (b) (5)

c. Doc. 45198/1 — (b) (5)

d. Doc. 45183/2 — (b) (5)

16. FCC Proceeding — (b) (5)

a. Doc. 43507/4 — (b) (5)

b. Doc. 44370/1 — (b) (5)

c. Doc. 44414/1 — (b) (5)

d. Doc. 44415/1 — (b) (5)

e. Doc. 44421/1 — (b) (5)

f. Doc. 44444/1 — (b) (5)

e. Doc. 44445/1 — (b) (5)

h. Doc. 44459/1 — (b) (5)

i. Doc. 44460/1 — (b) (5)

j. Doc. 44625/1 — (b) (5)

k. Doc. 44669/1 — (b) (5)

l. Doc. 44732/1 — (b) (5)

m. Doc. 44827/1 — (b) (5)

n. Doc. 44868/1 — (b) (5)

o. Doc. 44967/1 — (b) (5)

p. Doc. 44983/1 — (b) (5)

q. Doc. 45045/1 — (b) (5)

r. Doc. 45134/1 — (b) (5)

s. Doc. 45150/1 — (b) (5)

t. Doc. 45209/1 — (b) (5)

u. *Doc. 45230/1 — (b) (5)

v. *Doc. 45231/1 — (b) (5)

17. FCC Proceeding - (b) (5)

a. *Doc. 45224/1 — (b) (5)

b. *Doc. 45237/1 — (b) (5)

18. FCC Proceeding - (b) (5)

a. Doc. 45197/1 — (b) (5)

b. *Doc. 45197/2 — (b) (5)

19. FCC Proceeding - (b) (5)

a. Doc. 43965/1 — (b) (5)

b. Doc. 44095/1 — (b) (5)

c. Doc. 44130/1 — (b) (5)

d. Doc. 44237/1 — (b) (5)

e. Doc. 44238/1 — (b) (5)

f. Doc. 44468/1 — (b) (5)

g. Doc. 44867/1 — (b) (5)

h. Doc. 45047/2 — (b) (5)

i. Doc. 45123/1 — (b) (5)

20. FCC Proceeding - (b) (5)

a. Doc. 43384/1 — (b) (5)

b. Doc. 43385/1 — (b) (5)

c. Doc. 43425/1 — (b) (5)

d. Doc. 43478/1 — (b) (5)

e. Doc. 43739/1 — (b) (5)

f. Doc. 43990/1 — (b) (5)

g. Doc. 43998/1 — (b) (5)

h. Doc. 44033/1 — (b) (5)

i. Doc. 44056/1 — (b) (5)

j. Doc. 44231/1 — (b) (5)

k. Doc. 44239/1 — (b) (5)

21. FCC Proceeding — (b) (5)

a. Doc. 44227/1 — (b) (5)

b. Doc. 44490/1 — (b) (5)

c. Doc. 44491/1 — (b) (5)

d. Doc. 44513/1 — (b) (5)

e. Doc. 44513/2 — (b) (5)

22. FCC Proceeding — (b) (5)

a. Doc. 43738/1 — (b) (5)

b. Doc. 44910/1 — (b) (5)

c. Doc. 44913/1 — (b) (5)

d. Doc. 44914/1 — (b) (5)

e. Doc. 44975/2 — (b) (5)

f. Doc. 44996/1 — (b) (5)

g. Doc. 45187/1 — (b) (5)

h. Doc. 45202/1 — (b) (5)

i. Doc. 45211/1 — (b) (5)

23. FCC Proceeding — (b) (5)

a. Doc. 44773/1 — (b) (5)

b. Doc. 44857/1 — (b) (5)

c. Doc. 44858/1 — (b) (5)

d. Doc. 44859/1 — (b) (5)

e. Doc. 44860/1 — (b) (5)

(b) (5)

f. Doc. 44894/1 — (b) (5)

g. Doc. 45135/1 — (b) (5)

h. Doc. 45138/1 — (b) (5)

i. Doc. 45142/1 — (b) (5)

24. FCC Proceeding - (b) (5)

a. Doc. 44881/1 — (b) (5)

25. FCC Proceeding - (b) (5)

a. Doc. 44373/1 — (b) (5)

26. FCC Proceeding - (b) (5)

a. Doc. 44419/1 — (b) (5)

b. Doc. 44452/1 — (b) (5)

c. Doc. 44955/1 — (b) (5)

d. Doc. 44972/1 — (b) (5)

e. Doc. 45026/1 — (b) (5)

f. Doc. 45027/1 — (b) (5)

e. Doc. 45046/1 — (b) (5) [Redacted]

h. Doc. 45210/1 — (b) (5) [Redacted]

27. FCC Proceeding - (b) (5) [Redacted]

a. Doc. 44784/1 — (b) (5) [Redacted]

b. Doc. 44813/1 — (b) (5) [Redacted]

c. Doc. 44828/1 — (b) (5) [Redacted]

d. Doc. 44829/1 — (b) (5) [Redacted]

e. Doc. 44852/1 — (b) (5) [Redacted]

f. Doc. 44984/1 — (b) (5) [Redacted]

g. Doc. 45005/1 — (b) (5) [Redacted]

h. Doc. 45006/1 — (b) (5) [Redacted]

i. Doc. 45009/1 — (b) (5) [Redacted]

j. Doc. 45010/1 — (b) (5) [Redacted]

28. FCC Proceeding - (b) (5) [Redacted]

a. Doc. 44572/1 — (b) (5) [Redacted]

b. Doc. 44642/1 — (b) (5) [Redacted]

c. Doc. 44657/1 — (b) (5) [Redacted]

d. Doc. 44659/1 — (b) (5) [Redacted]

e. Doc. 44696/1 — (b) (5) [Redacted]

f. Doc. 44715/1 — (b) (5) [Redacted]

g. Doc. 44716/1 — (b) (5) [Redacted]

h. Doc. 44750/1 — (b) (5) [Redacted]

i. Doc. 44757/1 — (b) (5) [Redacted]

j. Doc. 44826/1 — (b) (5) [Redacted]

k. Doc. 44942/1 — (b) (5) [Redacted]

29. FCC Proceeding - (b) (5) [Redacted]

a. Doc. 44371/1 — (b) (5) [Redacted]

b. Doc. 44612/1 — (b) (5) [Redacted]

30. FCC Proceeding - (b) (5) [Redacted]

a. Doc. 44025/1 — (b) (5) [Redacted]

31. FCC Proceeding - (b) (5) [Redacted]

a. Doc. 44709/1 — (b) (5)

b. Doc. 44709/2 — (b) (5)

c. Doc. 44747/1 — (b) (5)

d. Doc. 44774/1 — (b) (5)

e. Doc. 44879/1 — (b) (5)

f. Doc. 44937/1 — (b) (5)

32. FCC Proceeding - (b) (5)

a. (b) (5)

i. Doc. 44107/1 — (b) (5)

ii. Doc. 44129/1 — (b) (5)

iii. Doc. 44148/1 — (b) (5)

iv. Doc. 44149/1 — (b) (5)

v. Doc. 44150/1 — (b) (5)

b. (b) (5)

i. Doc. 45050/1 — (b) (5)

ii. Doc. 45067/1 — (b) (5)

iii. Doc. 45072/1 — (b) (5)

33. FCC Proceeding - (b) (5)

a. Doc. 45212/1 — (b) (5)

b. *Doc. 45225/1 — (b) (5)

34. FCC Proceeding - (b) (5)

a. Doc. 45179/1 — (b) (5)

b. Doc. 45199/1 — (b) (5)

c. *Doc. 45223/1 — (b) (5)

35. FCC Proceeding - (b) (5)

a. Doc. 45019/1 — (b) (5)

b. Doc. 45055/1 — (b) (5)

c. Doc. 45058/1 — (b) (5)

d. Doc. 45068/1 — (b) (5)

e. Doc. 45069/1 — (b) (5)

36. Other Business



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
 INTERDEPARTMENT RADIO ADVISORY COMMITTEE
 Washington, D.C. 20230

2062nd Interdepartment Radio Advisory Committee Meeting

The National Telecommunications and Information Administration (NTIA) convened the 2062nd meeting of the Interdepartment Radio Advisory Committee (IRAC) on August 9, starting at 9:30 a. m. This meeting was conducted by Microsoft Teams and teleconference only and adjourned at 11:03 a. m.

1. Introductions and Roll Call

IRAC OFFICERS AND SUPPORT

Mr. Alan Frable	Chairperson
Mr. Edward Drocella	Vice-Chairperson/Chairperson, Technical Subcommittee (TSC)
Mr. Tom Snead	Executive Secretary
Mr. John Darden	Assistant Executive Secretary

MEMBER-AGENCY REPRESENTATIVES

Mr. Robert Parker, Representative	Agriculture
Mr. Perry Jones, Alt. Representative	Agriculture
Ms. Thu Luu, Representative	Air Force (AF)
Ms. Keisha Allen, Alt. Representative	AF (US Space Force)
Mr. Stevan Jovancevic, Alt. Representative	Army
Mr. Jerry Ulcek, Representative	Coast Guard
Mr. Ivan Navarro, Representative	Commerce
Mr. Bradford Benbow, Representative	Energy (DOE)
Mr. Don Nellis, Representative	Federal Aviation Administration (FAA)
Ms. Sandra Wright, Alt. Representative	FAA
Mr. Robert Hamlett, Alt. Representative	Department of Homeland Security (DHS)
Mr. Mark Powell, Alt. Representative	Interior
Mr. Anthony Frey, Alt. Representative	Interior
Mr. Dean Otey, Alt. Representative	Interior
Mr. Quan Vu, Representative	Justice
Mr. John Zuzek, Alt. Representative	Nat'l Aeronautics & Space Admin. (NASA)
Mr. Jerome Foreman, Representative	Navy
Mr. Arthur DeLeon, Alt. Representative	Navy
CW04 Jose Figueroa, Alt. Representative	Navy (US Marine Corps)
Mr. Jonathan Williams, Representative	National Science Foundation (NSF)
Mr. Brett Greenwalt, Representative	State
Ms. Wanda Covington-Ragsdale, Representative	Transportation (DOT)
Ms. Karen Van Dyke, Alt. Representative	DOT
Ms. Christina McCann, Representative	Treasury
Mr. Duane Williams, Representative	US Agency for Global Media

FEDERAL COMMUNICATIONS COMMISSION (FCC) LIAISON

Mr. Michael Ha, Liaison	FCC
Mr. Serey Thai, Alt. Liaison	FCC

OBSERVERS

Mr. Francisco Balbuena Guzman, Observer	Defense Information Systems Agency (DISA)
Mr. Robert Channas, Alt Observer	DISA

ASSISTANTS, CONSULTANT, ADVISORS, VISITORS OR GUESTS

Mr. Andrew Pencek, Contractor	DOE/B. Benbow
Mr. Jim Mentzer, Contractor	DHS/R. Hamlett
Mr. Dave Franc, Government	NASA/J. Zuzek
Mr. Larry Reed, Contractor	NASA/J. Zuzek
Dr. David Morris, Government	NSF/J. Williams
Mr. Ali Nassib, Government	FCC/M. Ha
Mr. Edwin Abrazado, Government	FCC/M. Ha
Mr. Miguel Gallegos, Government	FCC/M. Ha
Mr. Chris Lusk, Contractor	DISA/F. Balbuena Guzman
Ms. Tanin Izadi, Contractor	DISA/F. Balbuena Guzman

SUBCOMMITTEE AND AD HOC OFFICERS

Mr. John McFall	Chairperson, Frequency Assignment Subcommittee (FAS)
Mr. Greg Melz	Vice-Chairperson, FAS
Dr. Ayhan Sakarya	Vice-Chairperson, Spectrum Planning Subcommittee
Mr. Charles Glass	Chairperson, Radio Conference Subcommittee (RCS)
Mr. Brian Patten	Vice-Chairperson, RCS
Mr. Robert Avery	Chairperson, Space Systems Subcommittee
Mr. Scott Jackson	Chairperson, Emergency Planning Subcommittee
Mr. Eric Lee	Convener, Ad Hoc 170 & Ad Hoc 181
Mr. Fredrick Matos	Convener, Ad Hoc 1965

NTIA Leadership and Staff

Mr. Steve Molina, Deputy Associate Administrator, Spectrum Management (DAA/SM)	NTIA/OSM
Mr. Derek Khlopin, Deputy Associate Administrator, Spectrum Planning and Policy (DAA/SPP)	NTIA/OSM
Mr. Scott Patrick, Executive Officer	NTIA/OSM
Mr. Binyam Tadesse, Division Chief	OSM/Spectrum Services Division
Mr. Douglas Brake, Telecommunications Specialist	OSM/Spectrum Affairs & Information Division (SAID)
Mr. Nickolas LaSorte, Spectrum Engineer	OSM/Spectrum Engineering & Analysis Division (SEAD)
Mr. Bruce Lamb, Telecom. Specialist	OSM/International Spectrum Policy Division (ISPD)
Ms. Shelli Haskins, Telecom. Specialist	OSM/ISPD

2. Classification

The Executive Secretary informed the participants that the classification level of the meeting is unclassified. He asked the attendees to turn off any recording devices and reminded all attendees that the discussions of the IRAC constitute pre-decisional discussions of the Executive Branch and information regarding those discussions are not generally releasable outside the Federal Government. He told the participants that this meeting is being recorded to assist with the drafting of summary meeting minutes. He also stated that an attendee's voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. Doc. 45229/1 — Agenda for the 2062nd Meeting, August 9, 2022
- b. Doc. 45229/2 — Agenda for the 2062nd Meeting, August 9, 2022

The Acting Chair started by noting item 3a. He asked the members if there were any changes to item 3b.

Hearing none and without objection, the Chair approved item 3b.

4. Chairman's Comments and Announcements

The Chairman stated that at the last meeting the AF Representative asked if the October meeting will be dedicated for agency briefings on their spectrum management programs. He stated that while NTIA continues to encourage agencies to provide briefings on their current and future spectrum management programs, there will be no dedicated meeting. We plan to allow additional time for briefings at the October, November, and December IRAC meetings. Last year, Agency briefings were provided by AF, NSF, and NASA so NTIA would like others to provide briefings this year if possible. Please contact the Chairman or the Executive Secretary to get them scheduled.

- a. Doc. 45219/1 — PPSG Meeting Slides for July 22, 2022

The Chair introduced item 4a. as the PPSG Meeting Slides from the meeting held in July. The Meeting was on July 22nd and the slides are being provided for those who were not able to attend. Without objection, the Chair noted item 4a.

- b. Doc. 45220/1 — Scheduled Meetings for August 2022 - October 2022

The Chair introduced item 4b. noting the SWG meeting was scheduled for August 26th. He asked if there were any other changes to the meeting schedule. Hearing none and without objection, the Chair noted item 4b.

- c. Doc. 45234/1 — Interagency Update on NTIA-FCC Spectrum MoU (July 29, 2022)
- d. Doc. 45236/1 — NTIA-FCC Spectrum MoU (August 1, 2022)

The Chair introduced item 4c. and 4d. as the briefing slides and the final signed copy of the NTIA-FCC Memorandum of Understanding. The Chair thanked FCC for the cooperation in getting this done and stated it will be beneficial to all. He also added that feedback from external

stakeholders has been very positive. He asked if there were any questions on these items. Hearing none, and without objection, the Chair noted items 4c. and 4d.

5. Summary Minutes

- a. Doc. 45182/1 — Summary Minutes for the 2060th IRAC Meeting (June 14, 2022)
- b. Doc. 45217/1 — Summary Minutes for the 2061st IRAC Meeting (July 12, 2022)

The Chair asked the Executive Secretary for any updates to the minutes. The Executive Secretary stated that item 5a. was distributed via the ListServ on June 28th. There have been no edits or corrections received and he recommended approving as written. The Chair asked the membership if there were any questions or requested changes. Hearing none and without objection, the Chair approved 5a.

Additionally, the Chair tabled item 5b. to the September 13, 2022, IRAC meeting to give the membership additional time to review.

6. Factors Affecting Assignments in the (b) (5)

- a. Doc. 44973/1 — (b) (5)
- b. Doc. 44981/1 — (b) (5)
- c. Doc. 44982/1 — (b) (5)
- d. Doc. 44985/1 — (b) (5)
- e. Doc. 45023/1 — (b) (5)

The DAA/SM provided a quick update stating (b) (5)
The DAA/SM will reach out to the FAA (M. Weiler) to follow up on this.

The Chair asked if there were any other questions or concerns on this item. Hearing none and without objection, the Chair tabled items 6 a-e to the September 13, 2022, IRAC meeting.

7. Technical Feasibility of (b) (5)

- a. Doc. 45015/2 — (b) (5)

The DAA/SM stated along with item 6, this item is still being held in abeyance to reconcile the technical issues with respect to FAA's and NTIA's analysis.

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled item 7a., to the September 13, 2022, IRAC meeting.

8. Agency Counter-(b) (5)

- a. Doc. 44614/1 — (b) (5)
- b. Doc. 44863/1 — (b) (5)
- c. Doc. 44864/1 — (b) (5)
- d. Doc. 44930/1 — (b) (5)
- e. Doc. 45136/1 — (b) (5)

The Chair stated there was no update from NTIA on this item and asked if there were any comments on this item.

Hearing none and without objection, the Chair tabled items 8 a-e to the September 13, 2022, IRAC meeting.

9. RCS Draft Proposals for WRC-23

- a. *Doc. 45238/1 — (b) (5)

The RCS Chair introduced item 9a., as six draft proposals for agenda items 1.2, 1.2, 1.8, 4, and 10 which are needed at the IWG (Informal Working Group) WACs (World Radiocommunication Conference) session for the upcoming CITEL (Inter-American Telecommunication Commission) meeting very shortly. These proposals, approved by at the August RCS meeting, include WRC-23 Agenda Items 1.1 (b) (5)

4 addressing Resolutions and Recommendations Review in accordance with Resolution 95, and 10 addressing Future Conference Agenda Items (FCAs). The RCS Chairman is requesting the IRAC's consideration and approval of the document so that we can submit it into the CITEL process.

The NASA Alternate Representative stated that (b) (5) which was also approved at the August RCS meeting, without changes, and why wasn't it included. The RCS Chair stated that this one fell through the crack due to miscommunication and it will be prepared for the September IRAC meeting. NASA asked since it would be on the September IRAC meeting would it make the next CITEL meeting?

The Transportation Representative asked about Agenda Item 4, and had it been shown to NIST (National Institute of Standards and Technology) which is one of their timekeepers. The RCS Chair stated he was not aware of any NIST involvement. The RCS Vice-Chair stated the participation of NIST has been spotty over the years and they have not been active recently. The RCS keeps them aware of this issue

The Chairman asked if there were any questions on item 9a. and was there any objection to approving it today.

Hearing none and without objection, the Chair approved item 9a.

10. (b) (5)
- a. Doc. 45226/1 — (b) (5)
 - b. Doc. 45227/1 — (b) (5)
 - c. Doc. 45228/1 — (b) (5)

The FAS Chair introduced items 10 a-c which were all approved at its July 20, 2022, meeting. Item 10a. (b) (5)

The Chair asked if there were any questions on these items and was there any issues with approving them today.

Hearing none and without objection, the Chair approved items 10 a-c.

11. (b) (5)
- a. Doc. 45178/1 — (b) (5)

The Chair stated that due to internal NTLA/Department of Commerce discussions, this item will be tabled until the September IRAC meeting.

The DHS Alternate Representative (b) (5)

The Chair stated this is being looked at within the legal departments and there is nothing to update at this time.

Hearing no other questions or concerns, the Chair tabled item 11a. to the September 13, 2022, IRAC meeting.

12. FCC Proceeding - (b) (5)
- a. Doc. 45145/1 — (b) (5)
 - b. Doc. 45160/1 — (b) (5)
 - c. Doc. 45144/2 — (b) (5)

d. Doc. 45232/1 — (b) (5)

e. Doc. 45233/1 — (b) (5)

The Chair introduced items (b) (5)

NTIA is currently reviewing and will be submitting them publicly in response to the FCC Public Notice.

(b) (5)

The Chair asked if there were any objections to noting items 12a. and 12b. and tabling items 12 c-e. Hearing none and without objection the Chair noted items 12a. and 12b. and tabled items 12 c-e to the September 13, 2022, IRAC meeting.

13. FCC Proceeding - (b) (5)

a. Doc. 44776/2 — (b) (5)

b. Doc. 44792/1 — (b) (5)

c. Doc. 44794/1 — (b) (5)

d. Doc. 44795/1 — (b) (5)

e. Doc. 44796/1 — (b) (5)

f. Doc. 44893/1 — (b) (5)

g. Doc. 44898/1 — (b) (5)

h. Doc. 44963/2 — (b) (5)

The Chair stated there was nothing new to report on this item and asked if there were any questions or concerns with noting items 13 b-e and tabling items 13a. and 13 f-h.

Hearing none, and without objection, the Chair noted items 13 b-e and tabled items 13a. and 13 f-h to the September 13, 2022, IRAC meeting.

14. FCC Proceeding - (b) (5)

a. Doc. 45162/3 — (b) (5)

b. Doc. 45218/1 — (b) (5)

- c. Doc. 45221/1 — (b) (5)
- d. Doc. 45222/1 — (b) (5)
- e. Doc. 45218/2 — (b) (5)
- f. Doc. 45235/1 — (b) (5)

The Commerce Representative introduced item 14c. (b) (5)

The Coast Guard Representative introduced item 14d. (b) (5)

The Navy Representative introduce item 14f. (b) (5)

Mr. Brake (NTIA) introduced item 14e. as the NTIA comments to the FCC NOI. Comments were filed a week ago and Mr. Brake thanked the members of the working group as well as the IRAC for their feedback on this proceeding. Comments were received from NOAA, CG, and the DON. The group is currently evaluating other comments in the docket and at this point do not believe there is a need to file reply comments. They may change based upon other filed reply comment changes. The group will continue to work with the FCC as they aim towards more concrete proposals. The next step is to circle back with the working group with a summary of comments and reply comments to discuss any further feedback that we may want to provide.

The Transportation Representative stated that they had participated in this effort but that their document is not listed here (on the 2062nd Agenda). Mr. Brake concurred that their comments were used within the working group process and stated that's why they were not shown on the agenda.

The Navy Representative stated that they fully support Mr. Brake and the document (45218/2) as submitted and thanked them for their work.

The Chair asked if the Transportation comments should be brought into and filed at the IRAC formally. The Transportation Representative stated she did not have a preference. Mr. Drake stated not at this time but thanked Transportation for their support of this effort.

The Chair asked if there were any other questions or concerns on this item. Hearing none, and without objection, the Chair noted items 14b. and tabled 14a. and 14 c-f to the September 13, 2022, IRAC meeting.

15. FCC Proceeding – (b) (5)

- a. Doc. 45115/3 — (b) (5)
- b. Doc. 45184/1 — (b) (5)
- c. Doc. 45198/1 — (b) (5)
- d. Doc. 45183/2 — (b) (5)

Mr. Brake (NTIA) provided a quick update on this proceeding. Comments were filed in late June. Since then, the working group has met twice (b) (5)

The Chair asked if there were any other questions or concerns on this item. Hearing none, and without objection, the Chair tabled 15 a-d to the September 13, 2022, IRAC meeting.

16. FCC Proceeding - (b) (5)

- a. Doc. 43507/4 — (b) (5)
- b. Doc. 44370/1 — (b) (5)
- c. Doc. 44414/1 — (b) (5)
- d. Doc. 44415/1 — (b) (5)
- e. Doc. 44421/1 — (b) (5)
- f. Doc. 44444/1 — (b) (5)
- g. Doc. 44445/1 — (b) (5)

- h. Doc. 44459/1 — (b) (5)
- i. Doc. 44460/1 — (b) (5)
- j. Doc. 44625/1 — (b) (5)
- k. Doc. 44669/1 — (b) (5)
- l. Doc. 44732/1 — (b) (5)
- m. Doc. 44827/1 — (b) (5)
- n. Doc. 44868/1 — (b) (5)
- o. Doc. 44967/1 — (b) (5)
- p. Doc. 44983/1 — (b) (5)
- q. Doc. 45045/1 — (b) (5)
- r. Doc. 45134/1 — (b) (5)
- s. Doc. 45150/1 — (b) (5)
- t. Doc. 45209/1 — (b) (5)
- u. Doc. 45230/1 — (b) (5)
- v. Doc. 45231/1 — (b) (5)

The Chair stated that per request the NTIA Guidance has been given a number and put on the agenda as item 16u.

The OSM Executive Officer introduced item 16v. (b) (5)

(b) (5) Alternate Representative (b) (5)

The Chair asked if there were any further questions or concerns. Hearing none and without objection, the Chair tabled items 16 a-v to the September 13, 2022, IRAC meeting.

- 17. FCC Proceeding - (b) (5)**
- a. Doc. 45224/1 — (b) (5)
 - b. Doc. 45237/1 — (b) (5)

The FCC Liaison introduced item 17a. (b) (5)

(b) (5)

The Air Force Representative introduced item 17b. as comments to the FCC Draft Order and Authorization. Comments include some minor editorial changes, insertion of coordination email addresses for NTIA, NOA, NASA and AF, (b) (5)

The Transportation Representative asked the FCC Liaison (b) (5)

The NSF Representative (b) (5)

The NASA Alternate Representative (b) (5)

The Chair noted comments were due on this topic yesterday (August 8, 2022) but was NSF or NASA planning on submitted formal comments. NSF stated they would be by close of business tomorrow (August 10, 2022).

The Chair asked if there were any further questions or concerns. Hearing none and without objection, the Chair tabled items 17 a-b to the September 13, 2022, IRAC meeting.

18. FCC Proceeding - (b) (5)

a. Doc. 45197/1 — (b) (5)

b. Doc. 45197/2 — (b) (5)

The Chair introduced item 10b. as the recently released R&O and NPRM. He asked the members if there was a need to keep tracking this item as very little feedback has been received despite going out for comment twice.

Hearing none, and without objection, the Chair noted items 10 a-b.

19. FCC Proceeding - (b) (5)

- a. Doc. 43965/1 — (b) (5)
- b. Doc. 44095/1 — (b) (5)
- c. Doc. 44130/1 — (b) (5)
- d. Doc. 44237/1 — (b) (5)
- e. Doc. 44238/1 — (b) (5)
- f. Doc. 44468/1 — (b) (5)
- g. Doc. 44867/1 — (b) (5)
- h. Doc. 45047/2 — (b) (5)
- i. Doc. 45123/1 — (b) (5)

Mr. Matos (NTIA) stated there is nothing to update on this proceeding at this time and that the mmWave Coalition is working on the analysis to the previously provided questions.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 19 a-i to the September 13, 2022, IRAC meeting.

20. FCC Proceeding - (b) (5)

- a. Doc. 43384/1 — (b) (5)
- b. Doc. 43385/1 — (b) (5)
- c. Doc. 43425/1 — (b) (5)
- d. Doc. 43478/1 — (b) (5)
- e. Doc. 43739/1 — (b) (5)
Coordination).
- f. Doc. 43990/1 — (b) (5)
- g. Doc. 43998/1 — (b) (5)
- h. Doc. 44033/1 — (b) (5)
- i. Doc. 44056/1 — (b) (5)
- j. Doc. 44231/1 — (b) (5)
- k. Doc. 44239/1 — (b) (5)

The FAA Representative asked if the FCC has a status on a potential date when the next step may be taken on this proceeding. The FCC Liaison stated that he does not have any updates at this time, and he doesn't think there is an urgency to act on this item yet. However, with the recent release of the UAS NPRM, this may change.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 20 a-k to the November 8, 2022, IRAC meeting.

21. FCC Proceeding - (b) (5)

- a. Doc. 44227/1 — (b) (5)
- b. Doc. 44490/1 — (b) (5)
- c. Doc. 44491/1 — (b) (5)
- d. Doc. 44513/1 — (b) (5)
- e. Doc. 44513/2 — (b) (5)

The FAA Representative stated that internal coordination is ongoing, but he hopes to shortly be able to send NTIA and FCC a copy of the 374 Report for their review before the report leaves the FAA.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 21 a-e to the October 18, 2022, IRAC meeting.

22. FCC Proceeding - (b) (5)

- a. Doc. 43738/1 — (b) (5)
- b. Doc. 44910/1 — (b) (5)
- c. Doc. 44913/1 — (b) (5)
- d. Doc. 44914/1 — (b) (5)
- e. Doc. 44975/2 — (b) (5)
- f. Doc. 44996/1 — (b) (5)
- g. Doc. 45187/1 — (b) (5)
- h. Doc. 45202/1 — (b) (5)
- i. Doc. 45211/1 — (b) (5)

The FCC Liaison stated they are still reviewing FAA and NTIA's feedback and they will touch base with some final questions before finalizing the NPRM.

The FAA Representative asked if there was a tentative draft for the upcoming meeting with the FCC. The FCC Liaison stated he would check with the time to find out what can be shared at this time.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 22 a-i to the September 13, 2022, IRAC meeting.

23. FCC Proceeding - (b) (5)

- a. Doc. 44773/1 — (b) (5)
- b. Doc. 44857/1 — (b) (5)
- c. Doc. 44858/1 — (b) (5)
- d. Doc. 44859/1 — (b) (5)
- e. Doc. 44860/1 — (b) (5)
- f. Doc. 44894/1 — (b) (5)
- g. Doc. 45135/1 — (b) (5)
- h. Doc. 45138/1 — (b) (5)
- i. Doc. 45142/1 — (b) (5)

Mr. Brake (NTIA) stated (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 23 a-i to the September 13, 2022, IRAC meeting.

24. FCC Proceeding - (b) (5)

- a. Doc. 44881/1 — (b) (5)

The FCC Liaison stated they are still working through the details of this proceeding, but he feels most of the federal concerns have been addressed.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 24a. to the September 13, 2022, IRAC meeting.

25. FCC Proceeding - (b) (5)

- a. Doc. 44373/1 — (b) (5)

The FCC Liaison noted (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 25a. to the September 13, 2022, IRAC meeting.

26. FCC Proceeding - (b) (5)

- a. Doc. 44419/1 — (b) (5)
- b. Doc. 44452/1 — (b) (5)
- c. Doc. 44955/1 — (b) (5)
- d. Doc. 44972/1 — (b) (5)
- e. Doc. 45026/1 — (b) (5)
- f. Doc. 45027/1 — (b) (5)
- g. Doc. 45046/1 — (b) (5)
- h. Doc. 45210/1 — (b) (5)

The FCC Liaison stated some conversations took place last week (b) (5)

The Air Force Representative (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair noted item 26c. and tabled items 26 a-b and 26 d-h to the September 13, 2022, IRAC meeting.

27. FCC Proceeding - (b) (5)

- a. Doc. 44784/1 — (b) (5)
- b. Doc. 44813/1 — (b) (5)
- c. Doc. 44828/1 — (b) (5)
- d. Doc. 44829/1 — (b) (5)
- e. Doc. 44852/1 — (b) (5)
- f. Doc. 44984/1 — (b) (5)
- g. Doc. 45005/1 — (b) (5)

- h. Doc. 45006/1 — (b) (5)
- i. Doc. 45009/1 — (b) (5)
- j. Doc. 45010/1 — (b) (5)

The FCC Liaison stated this item is still out for Commissioner votes before it can be released. He does not have an estimated time for completion.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 27 a-j to the October 18, 2022, IRAC meeting.

- 28. FCC Proceeding — (b) (5)**
- a. Doc. 44572/1 — (b) (5)
 - b. Doc. 44642/1 — (b) (5)
 - c. Doc. 44657/1 — (b) (5)
 - d. Doc. 44659/1 — (b) (5)
 - e. Doc. 44696/1 — (b) (5)
 - f. Doc. 44715/1 — (b) (5)
 - g. Doc. 44716/1 — (b) (5)
 - h. Doc. 44750/1 — (b) (5)
 - i. Doc. 44757/1 — (b) (5)
 - j. Doc. 44826/1 — (b) (5)
 - k. Doc. 44942/1 — (b) (5)

The FCC Liaison stated that he does not have any updates at this item.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 28 a-k to the November 8, 2022, IRAC meeting.

- 29. FCC Proceeding — (b) (5)**
- a. Doc. 44371/1 — (b) (5)
 - b. Doc. 44612/1 — (b) (5)

The Chair asked if there was any reason to keep this item on the agenda or could it be noted. The NASA Alternate Representative stated that it was on the agenda as NTIA wanted to view NASA's comments on this proceeding, but NASA has no problem with it being noted.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair noted items 29 a-b.

30. FCC Proceeding - (b) (5)

- a. Doc. 44025/1 — (b) (5)

The DAA/SM noted that (b) (5)

(b) (5) Representative (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 30a. to the September 13, 2022, IRAC meeting.

31. FCC Proceeding - (b) (5)

- a. Doc. 44709/1 — (b) (5)

- b. Doc. 44709/2 — (b) (5)

- c. Doc. 44747/1 — (b) (5)

- d. Doc. 44774/1 — (b) (5)

- e. Doc. 44879/1 — (b) (5)

- f. Doc. 44937/1 — (b) (5)

The FCC Liaison (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 31 a-f to the October 18, 2022, IRAC meeting.

32. FCC Proceeding - (b) (5)

- a. (b) (5)

- i. Doc. 44107/1 — (b) (5)

- ii. Doc. 44129/1 — (b) (5)

- iii. Doc. 44148/1 — (b) (5)

- iv. Doc. 44149/1 — (b) (5)

- v. Doc. 44150/1 — (b) (5)

- b. (b) (5)

- i. Doc. 45050/1 — (b) (5)

- ii. Doc. 45067/1 — (b) (5)

iii. Doc. 45072/1 — (b) (5)

The FCC Liaison stated there are no updates/actions on this item

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 32 a-b to the October 18, 2022, IRAC meeting.

33. FCC Proceeding - (b) (5)

a. Doc. 45212/1 — (b) (5)

b. Doc. 45225/1 — (b) (5)

The NSF Representative introduced item 33b. (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 33 a-b to the September 13, 2022, IRAC meeting.

34. FCC Proceeding - (b) (5)

a. Doc. 45179/1 — (b) (5)

b. Doc. 45199/1 — (b) (5)

c. Doc. 45223/1 — (b) (5)

The Chair introduced item 34c. which are the NTIA conditions for this request. The FCC Liaison stated they are reviewing the conditions and may have a short discussion with the Vice-Chair and his team on them.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 34 a-c to the September 13, 2022, IRAC meeting.

35. FCC Proceeding - (b) (5)

a. Doc. 45019/1 — (b) (5)

b. Doc. 45055/1 — (b) (5)

c. Doc. 45058/1 — (b) (5)

d. Doc. 45068/1 — (b) (5)

e. Doc. 45069/1 — (b) (5)

The Vice Chair provided an update (b) (5)

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 35 a-e to the September 13, 2022, IRAC meeting.

36. Other Business

The Chair asked if any agencies plan to brief the IRAC in the next few months and if so to please contact the Chair and Executive Secretary to get on the schedule.



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
INTERDEPARTMENT RADIO ADVISORY COMMITTEE
Washington, D.C. 20230

2063rd Interdepartment Radio Advisory Committee Meeting

Meeting Date: September 13, 2022, at 9:30 a.m.

Teleconference Only Meeting

[Microsoft Teams Link](#)

or

Phone Number: (b) (7)(E) Participant Code: (b) (7)(E)

1. Introductions and Roll Call

2. Classification

This meeting is Unclassified. It is being recorded to assist with drafting of summary meeting minutes. An attendee's voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. *Doc. 45258/1 — Agenda for the 2063rd Meeting, September 13, 2022
- b. *Doc. 45258/2 — Agenda for the 2063rd Meeting, September 13, 2022

4. Chairman's Comments and Announcements

- a. *Doc. 45246/1 — Scheduled Meetings for September 2022 - November 2022
- b. *Doc. 45251/1 — Security Clearance and Commerce Badge Requirements for Attending IRAC Meetings
- c. *Doc. 45253/1 — NTIA Memorandum re Suspension of AH1965

5. Summary Minutes

- a. Doc. 45217/1 — Summary Minutes for the 2061st IRAC Meeting (July 12, 2022)
Tabled from 8/9/2022
- b. *Doc. 45243/1 — Summary Minutes for the 2062nd IRAC Meeting (August 9, 2022)

6. NASA Briefing- (b) (5)

- a. *Doc. 45259/1 — (b) (5)

7. Factors Affecting Assignments in the (b) (5)

- a. Doc. 44973/1 — (b) (5)

- b. Doc. 44981/1 — (b) (5)

c. Doc. 44982/1 — (b) (5)

d. Doc. 44985/1 — (b) (5)

e. Doc. 45023/1 — (b) (5)

8. Technical Feasibility of (b) (5)

a. Doc. 45015/2 — (b) (5)

9. Agency Counter- (b) (5)

a. Doc. 44614/1 — (b) (5)

b. Doc. 44863/1 — (b) (5)

c. Doc. 44864/1 — (b) (5)

d. Doc. 44930/1 — (b) (5)

e. Doc. 45136/1 — (b) (5)

10. (b) (5)

a. *Doc. 45260/1 — (b) (5)

11. (b) (5)

a. *Doc. 45261/1 — (b) (5)

12. (b) (5)

a. Doc. 45178/1 — (b) (5)

13. FCC Proceeding - (b) (5)

a. *Doc. 45256/1 — (b) (5)

b. *Doc. 45252/1 — (b) (5)

c. *Doc. 45252/2 — (b) (5)

14. FCC Proceeding - (b) (5)

a. *Doc. 45254/1 — (b) (5)

b. *Doc. 45255/1 — (b) (5)

15. FCC Proceeding - (b) (5)

a. Doc. 45144/2 — (b) (5)

b. Doc. 45232/1 — (b) (5)

c. Doc. 45233/1 — (b) (5)

16. FCC Proceeding - (b) (5)

a. Doc. 44776/2 — (b) (5)

b. Doc. 44898/1 — (b) (5)

c. Doc. 44893/1 — (b) (5)

d. Doc. 44963/2 — (b) (5)

17. FCC Proceeding - (b) (5)

a. Doc. 45162/3 — (b) (5)

b. Doc. 45221/1 — (b) (5)

c. Doc. 45222/1 — (b) (5)

d. Doc. 45218/2 — (b) (5)

e. Doc. 45235/1 — (b) (5)

18. FCC Proceeding — (b) (5)

a. Doc. 45115/3 — (b) (5)

b. Doc. 45184/1 — (b) (5)

c. Doc. 45198/1 — (b) (5)

d. Doc. 45183/2 — (b) (5)

19. FCC Proceeding — (b) (5)

a. Doc. 43507/4 — (b) (5)

b. Doc. 44370/1 — (b) (5)

c. Doc. 44414/1 — (b) (5)

d. Doc. 44415/1 — (b) (5)

e. Doc. 44421/1 — (b) (5)

f. Doc. 44444/1 — (b) (5)

g. Doc. 44445/1 — (b) (5)

h. Doc. 44459/1 — (b) (5)

i. Doc. 44460/1 — (b) (5)

j. Doc. 44625/1 — (b) (5)

k. Doc. 44669/1 — (b) (5)

l. Doc. 44732/1 — (b) (5)

m. Doc. 44827/1 — (b) (5)
Tabled from 8/9/2022

n. Doc. 44868/1 — (b) (5)

o. Doc. 44967/1 — (b) (5)

p. Doc. 44983/1 — (b) (5)

q. Doc. 45045/1 — (b) (5)

r. Doc. 45134/1 — (b) (5)

s. Doc. 45150/1 — (b) (5)

t. Doc. 45209/1 — (b) (5)

u. Doc. 45230/1 — (b) (5)

v. Doc. 45231/1 — (b) (5)

w. *Doc. 45262/1 — (b) (5)

20. FCC Proceeding - (b) (5)

a. Doc. 45224/1 — (b) (5)

b. Doc. 45237/1 — (b) (5)

c. *Doc. 45244/1 — (b) (5)

d. *Doc. 45245/1 — (b) (5)

21. FCC Proceeding - (b) (5)

a. Doc. 43965/1 — (b) (5)

b. Doc. 44095/1 — (b) (5)

c. Doc. 44130/1 — (b) (5)

d. Doc. 44237/1 — (b) (5)

e. Doc. 44238/1 — (b) (5)

f. Doc. 44468/1 — (b) (5)

g. Doc. 44867/1 — (b) (5)

h. Doc. 45047/2 — (b) (5)

i. Doc. 45123/1 — (b) (5)

22. FCC Proceeding — (b) (5)

a. Doc. 43738/1 — (b) (5)

b. Doc. 44910/1 — (b) (5)

c. Doc. 44913/1 — (b) (5)

d. Doc. 44914/1 — (b) (5)

e. Doc. 44975/2 — (b) (5)

f. Doc. 44996/1 — (b) (5)

g. Doc. 45187/1 — (b) (5)

h. Doc. 45202/1 — (b) (5)

i. Doc. 45211/1 — (b) (5)

23. FCC Proceeding — (b) (5)

a. Doc. 44773/1 — (b) (5)

b. Doc. 44857/1 — (b) (5)

c. Doc. 44858/1 — (b) (5)

d. Doc. 44859/1 — (b) (5)

e. Doc. 44860/1 — (b) (5)

f. Doc. 44894/1 — (b) (5)

g. Doc. 45135/1 — (b) (5)

h. Doc. 45138/1 — (b) (5)

i. Doc. 45142/1 — (b) (5)

24. FCC Proceeding — (b) (5)

a. Doc. 44881/1 — (b) (5)

25. FCC Proceeding — (b) (5)

a. Doc. 44373/1 — (b) (5)

26. FCC Proceeding - (b) (5)

a. Doc. 44419/1 — (b) (5)

b. Doc. 44452/1 — (b) (5)

c. Doc. 44972/1 — (b) (5)

d. Doc. 45026/1 — (b) (5)

e. Doc. 45027/1 — (b) (5)

f. Doc. 45046/1 — (b) (5)

g. Doc. 45210/1 — (b) (5)

27. FCC Proceeding - (b) (5)

a. Doc. 44025/1 — (b) (5)

b. *Doc. 45263/1 — (b) (5)

28. FCC Proceeding - (b) (5)

a. Doc. 44145/1 — (b) (5)

b. Doc. 44463/1 — (b) (5)

c. Doc. 44464/1 — (b) (5)

d. Doc. 44830/1 — (b) (5)

29. FCC Proceeding - (b) (5)

a. Doc. 44610/1 — (b) (5)

b. Doc. 44653/1 — (b) (5)

c. Doc. 44693/1 — (b) (5)

d. Doc. 44902/1 — (b) (5)

e. Doc. 44903/1 — (b) (5)

30. FCC Proceeding - (b) (5)

a. *Doc. 45242/1 — (b) (5)

b. *Doc. 45248/1 — (b) (5)

31. FCC Proceeding - (b) (5)

a. Doc. 45212/1 — (b) (5)

b. Doc. 45225/1 — (b) (5)

c. *Doc. 45225/2 — (b) (5)

32. FCC Proceeding - (b) (5)

a. Doc. 45179/1 — (b) (5)

b. Doc. 45199/1 — (b) (5)

c. Doc. 45223/1 — (b) (5)

33. FCC Proceeding - (b) (5)

a. Doc. 45019/1 — (b) (5)

b. Doc. 45055/1 — (b) (5) [REDACTED]

c. Doc. 45058/1 — (b) (5) [REDACTED]

d. Doc. 45068/1 — (b) (5) [REDACTED]

e. Doc. 45069/1 — (b) (5) [REDACTED]

34. FCC Proceeding - (b) (5) [REDACTED]

a. *Doc. 45257/1 — (b) (5) [REDACTED]

35. Other Business



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
 INTERDEPARTMENT RADIO ADVISORY COMMITTEE
 Washington, D.C. 20230

2063rd Interdepartment Radio Advisory Committee Meeting

The National Telecommunications and Information Administration (NTIA) convened the 2063rd meeting of the Interdepartment Radio Advisory Committee (IRAC) on September 13, starting at 9:30 a.m. This meeting was conducted by Microsoft Teams and adjourned at 11:53 a.m.

1. Introductions and Roll Call

IRAC OFFICERS AND SUPPORT

Mr. Alan Frable	Chairperson
Mr. Edward Drocella	Vice-Chairperson/Chairperson, Technical Subcommittee (TSC)
Mr. Tom Snead	Executive Secretary
Mr. John Darden	Assistant Executive Secretary

MEMBER-AGENCY REPRESENTATIVES

Mr. Robert Parker, Representative	Agriculture
Mr. Perry Jones, Alt. Representative	Agriculture
Ms. Thu Luu, Representative	Air Force (AF)
Ms. Keisha Allen, Alt. Representative	AF (US Space Force)
Mr. Stevan Jovancevic, Alt. Representative	Army
Mr. Jerry Ulcek, Representative	Coast Guard (CG)
Ms. Jodi Cramer, Alt. Representative	CG
Mr. Ivan Navarro, Representative	Department of Commerce (DOC)
Ms. Pamela Main, Alt. Representative	Energy (DOE)
Ms. Sandra Wright, Alt. Representative	Federal Aviation Administration
Mr. Robert Hamlett, Alt. Representative	Department of Homeland Security (DHS)
Mr. Bryan Wright, Representative	Interior
Mr. Mark Powell, Alt. Representative	Interior
Mr. Anthony Frey, Alt. Representative	Interior
Mr. Dean Otey, Alt. Representative	Interior
Mr. Quan Vu, Representative	Justice
Mr. John Zuzek, Alt. Representative	Nat'l Aeronautics & Space Admin. (NASA)
Mr. Bryan Rhodes, Alt. Representative	NASA
Mr. Glenn Feldhake, Alt. Representative	NASA
CW04 Jose Figueroa, Alt. Representative	Navy (US Marine Corps)
Mr. Jonathan Williams, Representative	National Science Foundation (NSF)
Ms. Ashley VanderLey, Alt. Representative	NSF
Mr. Brett Greenwalt, Representative	State
Ms. Wanda Covington-Ragsdale, Representative	Transportation (DOT)
Ms. Karen Van Dyke, Alt. Representative	DOT

2. Classification

The Executive Secretary informed the participants that the classification level of the meeting is unclassified. He asked the attendees to turn off any recording devices and reminded all attendees that the discussions of the IRAC constitute pre-decisional discussions of the Executive Branch and information regarding those discussions are not generally releasable outside the Federal Government. He told the participants that this meeting is being recorded to assist with the drafting of summary meeting minutes. He also stated that an attendee's voluntary participation in the meeting demonstrates consent to this recording.

3. Approval of the Agenda

- a. Doc. 45258/1 — Agenda for the 2063rd Meeting, September 13, 2022
- b. Doc. 45258/2 — Agenda for the 2063rd Meeting, September 13, 2022

The Chair started by noting item 3a. He asked the members if there were any changes to item 3b.

Hearing none and without objection, the Chair approved item 3b.

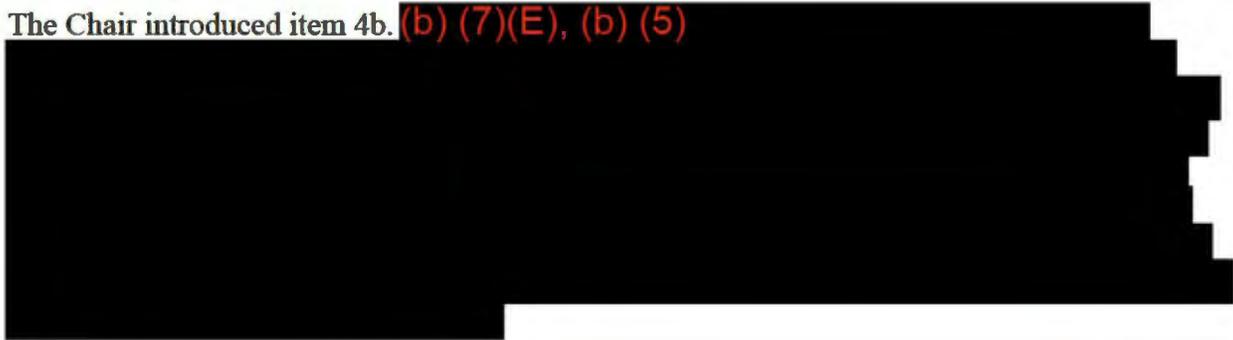
4. Chairman's Comments and Announcements

- a. Doc. 45246/1 — Scheduled Meetings for September 2022 - November 2022

The Chair introduced item 4a. and reminded the members to please review changes and cancellations. The RCS Chair announced that the October RCS meeting may be cancelled pending another conflicting meeting. The Chair asked if there were any other updates. Hearing none and without objection, the Chair noted item 4a.

- b. Doc. 45251/1 — Security Clearance and Commerce Badge Requirements for Attending IRAC Meetings

The Chair introduced item 4b. (b) (7)(E), (b) (5)



The Chair also reminded the Representatives to not send PII via clear email and to please review and update their agencies IRAC/Subcommittee rosters as we like to see these annually. He asked if there were any questions. Hearing none, and without objection, The Chair noted items 4b.

- c. Doc. 45253/1 — NTIA Memorandum re Suspension of AH1965

The Chair introduced item 4c. as a strategic pause with AH1965 to allow the OSM leadership to assess the current direction/staffing needs of the ongoing project. The Interior Representative asked for clarification on the assessment as there has been a great deal of effort and resources put into the manual update. He stated Mr. Matos has done a significant amount of work on this

project, without a supporting staff, and it would be a shame if that effort was wasted. The Chair stated that it is currently just an assessment to make sure that NTIA leadership is comfortable with the direction the project is going and the resources required to finish it both inside the NTIA and the federal agencies. The work that was completed will not be discarded. He asked if there were any other questions. Hearing none, and without objection, The Chair noted item 4c.

5. Summary Minutes

- a. Doc. 45217/1 — Summary Minutes for the 2061st IRAC Meeting (July 12, 2022)
- b. Doc. 45243/1 — Summary Minutes for the 2062nd IRAC Meeting (August 9, 2022)

The Chair asked the Executive Secretary for any updates to the minutes. The Executive Secretary stated that item 5a. was distributed via the ListServ on July 21, 2022. To date, only small edits have been received and all have been corrected. The Air Force Representative asked if item 5a. could be tabled for one month to give her time to review it. The Chair concurred.

The Chair asked the membership if there were any other questions or requested changes. Hearing none and without objection, the Chair tabled 5 a-b to the October 18, 2022, IRAC meeting.

6. NASA Briefing- (b) (5)

- a. Doc. 45259/1 — (b) (5)

Ms. Cathy Sham (NASA) provided the update briefing (Item 6a.) (b) (5)

(b) (5)

The Transportation Representative asked if other agencies (b) (5)

but NASA and NOAA, who have seats, can coordinate, and represent federal agencies.

The Army Alternate Representative asked (b) (5)

Mr. Glass (NTIA) asked (b) (5)

The AF Representative suggested that (b) (5)

Mr. Glass (NTIA) added that (b) (5)

The Chair asked if there were any other questions. Hearing none and without objection, the Chair noted 6a.

7. Factors Affecting Assignments in the (b) (5)

a. Doc. 44973/1 — (b) (5)

b. Doc. 44981/1 — (b) (5)

c. Doc. 44982/1 — (b) (5)

d. Doc. 44985/1 — (b) (5)

e. Doc. 45023/1 — (b) (5)

The DAA/SM was not available for an update. The Chair asked if there were any questions or other updates on this item. Hearing none and without objection, the Chair tabled items 7 a-e to the October 18, 2022, IRAC meeting.

8. Technical Feasibility of (b) (5)

a. Doc. 45015/2 — (b) (5)

Along with item 7, this item is still being held in abeyance to reconcile the technical issues with respect to FAA's and NTIA's analysis.

The AF Representative stated at the previous IRAC Meeting (b) (5)

The Chair stated that he did not know and that the DAA/SM would have the information. The AF Representative stated she would ask the DAA/SM offline.

The FAA Alternate Representative provided some insight into their perspective. They did have a meeting with the DAA/SM to discuss how to move forward. (b) (5)

(b) (5)

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled item 8a. to the October 18, 2022, IRAC meeting.

9. Agency Counter- (b) (5)

a. Doc. 44614/1 — (b) (5)

b. Doc. 44863/1 — (b) (5)

c. Doc. 44864/1 — (b) (5)

d. Doc. 44930/1 — (b) (5)

e. Doc. 45136/1 — (b) (5)

The Chair stated there was no update from NTIA on this item and asked if there were any issues with tabling it a few months.

Hearing none and without objection, the Chair tabled items 9 a-e to the November 8, 2022, IRAC meeting.

10. (b) (5)

a. *Doc. 45260/1 — (b) (5)

The RCS Chair introduced item 10a. as two draft proposals for agenda items 1.4 and 1.12. They are needed for the upcoming CITEL (Inter-American Telecommunication Commission) meeting. These proposals, approved by at the September RCS meeting, include WRC-23 Agenda Items 1.4 (b) (5)

The Chairman asked if there were any questions on item 10a. and was there any objection to approving it today.

Hearing none and without objection, the Chair approved item 10a.

11. (b) (5)

a. Doc. 45261/1 — (b) (5)

The NSA Observer introduced item 11a. (b) (5)
(b) (5) Representation in these subcommittees is vital to shaping NSA's future national and international mission requirements. The Chairman asked the RCS and SPS Chair's to provide their concurrence by the next IRAC meeting. The RCS Chair advised the RCS has no objections. The SPS Chair also advised there was not objections and will be providing the final decision at the next meeting.

The Chair asked if the Army would continue submitting certification requests to the SPS. The NSA Observer and the Army Alternate Representative both concurred that they would. Both the Chairman of the RCS and the SPS concurred with this request.

Item 11a. will be tabled, per IRAC Bylaws, to the October 18, 2022, IRAC meeting.

12. (b) (5)

a. Doc. 45178/1 — (b) (5)

The Chair stated that a meeting is scheduled to discuss the supplement this Thursday (September 15, 2022) so he would like to table this item for another month.

(b) (5) Representative asked if there was any way to elaborate on what the holdup is and is it a review of how we're going to handle FOUO/CUI situations. The Chair stated there are some complications. While it's not necessarily this document, (b) (5)

One of the concerns in the agency submissions for marking the document CUI is for protection from FOIA (Freedom of Information Act). This cannot be done as FOIA is a separate process and must be determined based upon the nine FOIA exemptions only. (b) (5)

The Energy Alternate Representative stated CUI has been defined in the CFR (Code of Federal Regulations) and the National Archives has 152 specific categories as to what should be marked CUI.

The Chair asked if there were any other questions or concerns on this topic. Hearing none, the Chair tabled item 12a. to the October 18, 2022, IRAC meeting.

13. FCC Proceeding - (b) (5)

a. Doc. 45256/1 — (b) (5)

b. Doc. 45252/1 — (b) (5)

c. Doc. 45252/2 — (b) (5)

The FCC liaison introduced item 13a. and noted that it is an NOI they are trying to issue or adopt during the October Commission meeting. (b) (5)

Ms. Sung (NTIA) introduced item 13c. (b) (5)

- As FCC pointed out (b) (5)

- (b) (5)

- (b) (5)

(b) (5)

In conclusion, NTIA (b) (5)

The AF Representative stated (b) (5)

The FCC Liaison stated for clarification that this is an NOI to solicit comments and it sounds like what NTIA has prepared is more aligned towards the comment that NTIA can submit on behalf of agencies for the record. It will be important for NTIA as well as the agencies to see what comments you're adding on the NOI versus what should go in for the record that is a response to it. It will probably help with the workload as well as the timing of the response is much later. The AF Representative thanked the FCC Liaison for the clarification, and she agreed.

The FCC Liaison stated the timing of this NOI is for consideration at the October Commission meeting, which is later in the month. It will take another month or month and a half before it gets to the Federal Register and then on top of it there will be another 30 to 45 days for the comment cycle. Therefore, it should be another three months before comments need to be submitted for the record as this is a short (less than 20 pages) NOI.

The Chair concurred saying we're looking for comments to the NOI by September 23, 2022, but we will keep the report tabled. It was put together as a quick assessment for making a judgement on the NOI.

The NASA Alternate Representative thanked Ms. Sung for the work and stated it's a great launching point for the NOI. (b) (5)

Therefore, NASA wants to make sure that we do things in a smart way if the FCC goes forward with a rulemaking here.

The Transportation Representative echoed the other agencies thanking Ms. Sung for her work stating it's a great start (b) (5)

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair noted item 13b. and tabled items 13a. and 13c. to the October 18, 2022, IRAC meeting.

14. FCC Proceeding - (b) (5)

a. Doc. 45254/1 — (b) (5)

b. Doc. 45255/1 — (b) (5)

The Chair introduced item 14a. which is (b) (5). It is an NOI and the draft was not coordinated with the IRAC. However, NTIA felt that there were several affected agencies, so we did send this out to solicit public comments.

Mr. Brake (NTIA) introduced item 14b. This was not formally coordinated with the IRAC, but we believe there's federal interest at stake. We have established a working group to help develop an executive branch response to the NOI and we're in the process of scheduling our first meeting. We sent out the notice this morning if you'd like to join this working group and develop comments on this NOI, please let me know. This NOI affects agency interests or invites comments on issues that are outside of NTIA's core expertise of spectrum policy. If you or your colleagues at your agency are interested in commenting on issues outside of spectrum policy, we would greatly appreciate your assistance and putting us in touch so we can facilitate a complete executive branch position.

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled items 14 a-b to the October 18, 2022, IRAC meeting.

15. FCC Proceeding - (b) (5)

a. Doc. 45144/2 — (b) (5)

b. Doc. 45232/1 — (b) (5)

c. Doc. 45233/1 — (b) (5)

Mr. Jacobs (NTIA) provided an update stating that NTIA plans on forwarding the Coast Guard comments as a response to this PN.

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled items 15 a-c to the October 18, 2022, IRAC meeting.

16. FCC Proceeding - (b) (5)

a. Doc. 44776/2 — (b) (5)

b. Doc. 44893/1 — (b) (5)

c. Doc. 44898/1 — (b) (5)

- d. Doc. 44963/2 — (b) (5)

The Chair stated there was nothing new to report on this item and asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled items 16 a-d to the October 18, 2022, IRAC meeting.

17. FCC Proceeding - (b) (5)

- a. Doc. 45162/3 — (b) (5)

- b. Doc. 45221/1 — (b) (5)

- c. Doc. 45222/1 — (b) (5)

- d. Doc. 45218/2 — (b) (5)

- e. Doc. 45235/1 — (b) (5)

Mr. Brake (NTIA) stated there was nothing significant to report on this item. As we discussed at the last meeting, NTIA submitted comments on the NOI. At this point we don't believe there's a need for further federal comment on the NOI. But we are in touch with the FCC staff and expect to coordinate any draft proposals that affect this proceeding.

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled items 17 a-e to the October 18, 2022, IRAC meeting.

18. FCC Proceeding - (b) (5)

- a. Doc. 45115/3 — (b) (5)

- b. Doc. 45184/1 — (b) (5)

- c. Doc. 45198/1 — (b) (5)

- d. Doc. 45183/2 — (b) (5)

Mr. Jacobs (NTIA) stated there is nothing significant to report on this item. (b) (5)

The FCC Liaison asked if there was any timing on the submission for this item. Mr. Jacobs stated that he does not have an estimate at this time but hopes to have something completed by the end of 2022.

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled items 18 a-d to the October 18, 2022, IRAC meeting.

19. FCC Proceeding - (b) (5)

- a. Doc. 43507/4 — (b) (5)
- b. Doc. 44370/1 — (b) (5)
- c. Doc. 44414/1 — (b) (5)
- d. Doc. 44415/1 — (b) (5)
- e. Doc. 44421/1 — (b) (5)
- f. Doc. 44444/1 — (b) (5)
- g. Doc. 44445/1 — (b) (5)
- h. Doc. 44459/1 — (b) (5)
- i. Doc. 44460/1 — (b) (5)
- j. Doc. 44625/1 — (b) (5)
- k. Doc. 44669/1 — (b) (5)
- l. Doc. 44732/1 — (b) (5)
- m. Doc. 44827/1 — (b) (5)
- n. Doc. 44868/1 — (b) (5)
- o. Doc. 44967/1 — (b) (5)
- p. Doc. 44983/1 — (b) (5)
- q. Doc. 45045/1 — (b) (5)
- r. Doc. 45134/1 — (b) (5)
- s. Doc. 45150/1 — (b) (5)
- t. Doc. 45209/1 — (b) (5)
- u. Doc. 45230/1 — (b) (5)
- v. Doc. 45231/1 — (b) (5)
- w. Doc. 45262/1 — (b) (5)

The OSM Executive Officer introduced item 16w. (b) (5)

The AF Representative asked if these letters could be added to this agenda item as part of the record. The OSM Executive Officer stated that was their intention.

The NSF Representative asked about the (b) (5)

(b) (5) The OSM Executive Officer stated that is the first time he has heard that but will take it back to find out.

The AF Representative asked if NTIA plans to review the report. The OSM Executive Officer stated yes but this will take some time.

The Chair asked if there were any further questions or concerns and stated the documents would be added to this agenda item. Hearing none and without objection, the Chair tabled items 19 a-w to the October 18, 2022, IRAC meeting.

20. FCC Proceeding - (b) (5)

a. Doc. 45224/1 — (b) (5)

b. Doc. 45237/1 — (b) (5)

c. Doc. 45244/1 — (b) (5)

d. Doc. 45245/1 — (b) (5)

The Chair and NSF Representative introduced item 20d. It adds two paragraphs on Radio Astronomy and protection of Radio Quiet Zones.

The FCC Liaison stated this item is going through the process, but he does not have any details on timing.

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled items 20 a-d to the October 18, 2022, IRAC meeting.

21. FCC Proceeding - (b) (5)

a. Doc. 43965/1 — (b) (5)

b. Doc. 44095/1 — (b) (5)

c. Doc. 44130/1 — (b) (5)

d. Doc. 44237/1 — (b) (5)

e. Doc. 44238/1 — (b) (5)

f. Doc. 44468/1 — (b) (5)

g. Doc. 44867/1 — (b) (5)

h. Doc. 45047/2 — (b) (5)

i. Doc. 45123/1 — (b) (5)

The Chair stated we are still waiting on a response from (b) (5) and that there is no update at this time.

The Chair asked if there were any other questions or concerns on this topic. Hearing none and without objection, the Chair tabled items 21 a-i to the November 8, 2022, IRAC meeting.

22. FCC Proceeding – (b) (5)

- a. Doc. 43738/1 – (b) (5)
- b. Doc. 44910/1 – (b) (5)
- c. Doc. 44913/1 – (b) (5)
- d. Doc. 44914/1 – (b) (5)
- e. Doc. 44975/2 – (b) (5)
- f. Doc. 44996/1 – (b) (5)
- g. Doc. 45187/1 – (b) (5)
- h. Doc. 45202/1 – (b) (5)
- i. Doc. 45211/1 – (b) (5)

The FCC Liaison stated this item was announced to go into circulation recently but there are no votes on it yet. Mr. Jacobs (NTIA) thanked FAA for the work on this proceeding.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 22 a-i to the October 18, 2022, IRAC meeting.

23. FCC Proceeding – (b) (5)

- a. Doc. 44773/1 – (b) (5)
- b. Doc. 44857/1 – (b) (5)
- c. Doc. 44858/1 – (b) (5)
- d. Doc. 44859/1 – (b) (5)
- e. Doc. 44860/1 – (b) (5)
- f. Doc. 44894/1 – (b) (5)
- g. Doc. 45135/1 – (b) (5)
- h. Doc. 45138/1 – (b) (5)

- i. Doc. 45142/1 — (b) (5)

Mr. Jacobs (NTIA) stated that there is nothing significant to report on this item.

The Chair asked if there were any comments or questions on this proceeding. Hearing none and without objection, the Chair tabled items 23 a-i to the October 18, 2022, IRAC meeting.

24. FCC Proceeding - (b) (5)

- a. Doc. 44881/1 — (b) (5)

The FCC Liaison stated they are still working through the details of this item, but he feels most of the federal concerns have been addressed.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 24a. to the November 8, 2022, IRAC meeting.

25. FCC Proceeding - (b) (5)

- a. Doc. 44373/1 — (b) (5)

The FCC Liaison noted there is nothing significant to report on this item.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 25a. to the November 8, 2022, IRAC meeting.

26. FCC Proceeding - (b) (5)

- a. Doc. 44419/1 — (b) (5)
- b. Doc. 44452/1 — (b) (5)
- c. Doc. 44972/1 — (b) (5)
- d. Doc. 45026/1 — (b) (5)
- e. Doc. 45027/1 — (b) (5)
- f. Doc. 45046/1 — (b) (5)
- g. Doc. 45210/1 — (b) (5)

The Vice Chair stated that the technical interchange group has been set up for this item. There will be bi-weekly meetings with the first scheduled for this Thursday (September 15, 2022). NTIA is working with NOAA, NASA, NSF, and AF trying to address some of the compatibility issues for all the agency equities.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 26 a-g to the October 18, 2022, IRAC meeting.

27. FCC Proceeding - (b) (5)

- a. Doc. 44025/1 — (b) (5)
- b. Doc. 45263/1 — (b) (5)

The Chair introduced item 27b. as the formal document submission.

The Chair asked about noting this item. Mr. Jacobs stated there is further work to be done on this item as the docket at FCC remains open.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair noted item 27b. and tabled item 27a. to the December 13, 2022, IRAC meeting.

28. FCC Proceeding - (b) (5)

- a. Doc. 44145/1 — (b) (5)
- b. Doc. 44463/1 — (b) (5)
- c. Doc. 44464/1 — (b) (5)
- d. Doc. 44830/1 — (b) (5)

The Chair noted there is nothing significant to report on this item.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 28 a-d to the December 13, 2022, IRAC meeting.

29. FCC Proceeding - (b) (5)

- a. Doc. 44610/1 — (b) (5)
- b. Doc. 44653/1 — (b) (5)
- c. Doc. 44693/1 — (b) (5)
- d. Doc. 44902/1 — (b) (5)
- e. Doc. 44903/1 — (b) (5)

The Chair noted there is nothing significant to report on this item.

The Transportation Representative asked the FCC for an update on this item and how it would play out as stakeholders are wanting to know what to do next. The FCC Liaison stated this is an open rule making so there is not much that can be shared at this time. (b) (5)

(b) (5)

There's a set of public comments that already came in that were issued by our wireless bureau and then there is another set of comments that are being produced by the Public Safety Bureau because they have different licensees. There are some governed by our license, the Wireless Bureau, and there are some other public safety licenses who have DSRC (Dedicated Short-Range Communications) or ITS (Intelligent Transportation System) licenses. There is a one action that needs to deal with those waivers, and there's another action that deals with more of a second R&O (Report and Order). Therefore, there is not much to discuss beyond what's on the public record.

The AF Representative stated that in the past when we were working with NTIA on comments,

(b) (5)

So, we are placing that in the further notice so that we can adopt it in the 2nd R&O.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 29 a-e to the December 13, 2022, IRAC meeting.

30. FCC Proceeding - (b) (5)

a. Doc. 45242/1 — (b) (5)

b. Doc. 45248/1 — (b) (5)

The FCC Liaison introduced item 30a. (b) (5)

If the customer has several events and are transmitting in multiple bands, they run into issues as Commission rules have different power or emission limits that can be difficult to comply with. What Ericsson is requesting is to provide a single solution which requires asking for a waiver of certain rules on emission limits. They feel that there is still enough protection. It's more of accommodating the single unit that would be manufactured because the only thing that's going to be impacted is the existing licensee. Some of the rules are built to provide a greater protection on some of the adjacent or co-channel band licensees. But, in this case it is the same customer who owns the license. So, the FCC has put it out for public comments to seek public records on it and sounds like NTIA is willing to put something on the record. The Chair concurred that we did receive comments from the FAA that will be put in for public comment.

The FAA Alternate Representative introduced item 30b. stating everyone in this forum is familiar with (b) (5)

FAA is asking Ericsson (b) (5)

(b) (5)

The Chair concurred and said these comments would be posted soon.

The Transportation Representative stated that they are in full support of the FAA position and are willing to work with the FCC and NTIA to ensure no interference to FAA systems.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 30 a-b to the October 18, 2022, IRAC meeting.

31. FCC Proceeding - (b) (5)

a. Doc. 45212/1 — (b) (5)

b. Doc. 45225/1 — (b) (5)

c. Doc. 45225/2 — (b) (5)

The Chair introduced item 31b. as the transmission of NSF comments to the FCC for this item. The NSF Representative thanked NTIA for forwarding them.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 31 a-c to the October 18, 2022, IRAC meeting.

32. FCC Proceeding - (b) (5)

a. Doc. 45179/1 — (b) (5)

b. Doc. 45199/1 — (b) (5)

c. Doc. 45223/1 — (b) (5)

The FCC Liaison stated they are in consultation (b) (5) on the requested conditions.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 32 a-c to the October 18, 2022, IRAC meeting.

33. FCC Proceeding - (b) (5)

a. Doc. 45019/1 — (b) (5)

b. Doc. 45055/1 — (b) (5)

c. Doc. 45058/1 — (b) (5)

d. Doc. 45068/1 — (b) (5)

e. Doc. 45069/1 — (b) (5)

The Vice Chair stated the DAA/SM is reaching out internationally to get some information on this item.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 33 a-e to the October 18, 2022, IRAC meeting.

34. FCC Proceeding - (b) (5)

a. Doc. 45257/1 — (b) (5)

The FCC Liaison introduced item 34a. as the (b) (5). This is a ground penetrating radar that's used in construction areas to see through concrete, etc. There has been a waiver that was issued many years ago that operates over the 200 MHz to 4 GHz frequency range. In 2019, (b) (5)

The Chair asked about the history as he couldn't find the coordination records. The only document he could find on this topic was a public notice on this from a few years ago. He asked if there was a draft order that was coordinated with the IRAC. The FCC Liaison stated he would contact the Chair offline.

The AF Representative advised that they found a draft document, however, it does not have an IRAC number and it was only the draft order dated Jan 24, 2018. The AF Representative asked about keeping a folder for UWB requests on IRACNET so they are easier to find. The Chair stated he would investigate it.

Agency comments are due by October 6, 2022.

The Chair asked if there were any other questions on this proceeding. Hearing none and without objection, the Chair tabled items 34a. to the October 18, 2022, IRAC meeting.

35. Other Business

The Chair reminded everyone that next month's meeting is on the third Tuesday. Next Meeting October 18, 2022 @0930 a.m. (3rd Tuesday)

There was a notification provided that the NTIA Spectrum Symposium is Sept 19, 2022, at 0900 with a 0915 start.

Link provided: [2022 NTIA Spectrum Policy Symposium](#)