



PUBLIC NOTICE

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DOCKET ESTABLISHED FOR 28 GHZ AGGREGATE INTERFERENCE ANALYSIS

GN Docket No. 17-171

The International Bureau, the Office of Engineering and Technology, and the Wireless Telecommunications Bureau establish a docket for the submission of filings relating to the potential impact of aggregate interference on satellites in the 27.5-28.35 GHz band (28 GHz band), as directed by the Commission in the *Spectrum Frontiers Report and Order*.¹

In that *Report and Order*, the Commission adopted new rules for wireless broadband operations in the 28 GHz band which has a primary² Fixed-Satellite Service (FSS) (Earth-to-Space) allocation.³ The Commission struck a balance between the current and future uses of this band and adopted effective sharing schemes to ensure that diverse users—including federal and non-federal, satellite and terrestrial, and fixed and mobile—can co-exist and expand.⁴

In that proceeding, FSS operators expressed concern that authorizing mobile operations would result in upward transmissions from large numbers of terrestrial stations that would generate, in the aggregate at the satellite's receiver, enough power to degrade the satellite link performance.⁵ In response, the Commission stated that “the record in this proceeding does not demonstrate that the [adopted] rules . . . would significantly risk harmful interference to satellite operations because of aggregate interference

¹ See *Use of Spectrum Bands Above 24 GHz For Mobile Radio Services, et al.*, Report and Order and Further Notice of Proposed Rulemaking, 31 FCC Rcd 8014, 8042 para. 69 (2016) (*Spectrum Frontiers Report and Order*).

² While the FSS allocation is co-primary, under our service rules FSS is secondary to the terrestrial Upper Microwave Flexible Use Service, except for FSS operations associated with earth stations authorized pursuant to 47 CFR § 25.136. See 47 C.F.R. § 25.202(a)(1) n.7.

³ *Spectrum Frontiers Report and Order*, 31 FCC Rcd at 8017 para. 1. See also 47 CFR § 2.106 (United States Table of Frequency Allocations).

⁴ See generally, *Spectrum Frontiers Report and Order*, 31 FCC Rcd 8014.

⁵ *Spectrum Frontiers Report and Order*, 31 FCC Rcd at 8038 para. 61.

received at the satellite receiver.”⁶ The Commission therefore declined to establish an aggregate interference limit.⁷

The Commission did encourage, however, the satellite and wireless industries to continue working cooperatively on the process of modeling the terrestrial systems under consideration for this band to provide further information concerning their potential impact on satellites, including by submitting to the Commission any relevant data demonstrating changes in the amount of aggregate interference. The Commission directed that the relevant Bureaus and Office establish a separate docket that parties can use to file the relevant data and analyses, and indicated that the Commission “reserve[s] the right to revisit this issue should additional information or other circumstances warrant further Commission review or action.”⁸

Today, the Bureaus and Office establish a docket for the submission of filings relating to the potential impact of aggregate interference on satellites in the 28 GHz band.

Procedural Matters

Submissions in this docket may be filed by paper or by using the Commission’s Electronic Comment Filing System (ECFS).

- **Electronic Filers:** Comments may be filed electronically using the Internet by accessing the ECFS: <http://fjallfoss.fcc.gov/ecfs2/>.
- **Paper Filers:** Parties who choose to file by paper must file an original and one copy of each filing.

Filings can be sent by hand or messenger delivery, by commercial overnight courier, or by first-class or overnight U.S. Postal Service mail. All filings must be addressed to the Commission’s Secretary, Office of the Secretary, Federal Communications Commission.

- All hand-delivered or messenger-delivered paper filings for the Commission’s Secretary must be delivered to FCC Headquarters at 445 12th Street, SW, Room TW-A325, Washington, DC 20554. The filing hours are 8:00 a.m. to 7:00 p.m. All hand deliveries must be held together with rubber bands or fasteners. Any envelopes and boxes must be disposed of before entering the building.
- Commercial overnight mail (other than U.S. Postal Service Express Mail and Priority Mail) must be sent to 9300 East Hampton Drive, Capitol Heights, MD 20743.
- U.S. Postal Service first-class, Express, and Priority mail must be addressed to 445 12th Street, SW, Washington DC 20554.

⁶ *Spectrum Frontiers Report and Order*, 31 FCC Rcd at 8039 para. 65.

⁷ *Spectrum Frontiers Report and Order*, 31 FCC Rcd at 8041-42 para. 67.

⁸ *Spectrum Frontiers Report and Order*, 31 FCC Rcd at 8042 para. 69 (footnotes omitted).

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One copy of each filing must be delivered electronically, by email or facsimile, or if delivered as paper copy, by hand or messenger delivery, by commercial overnight courier, or by first-class or overnight U.S. Postal Service mail (according to the procedures set forth above for paper filings), to the contacts listed below.

The proceeding this Notice initiates is akin to a notice of inquiry and therefore shall be treated as an exempt proceeding in accordance with the Commission's *ex parte* rules.⁹

FOR FURTHER INFORMATION CONTACT: Jose Albuquerque, Chief, Satellite Division, International Bureau, (202) 418-2288, Jose.Albuquerque@fcc.gov; Michael Ha, Deputy Chief, Policy and Rules Division, Office of Engineering and Technology, (202) 418-2099, Michael.Ha@fcc.gov, or Stephen C. Buenzow, Deputy Chief, Wireless Telecommunications Bureau, Federal Communications Commission, (717) 338-2647, Stephen.Buenzow@fcc.gov.

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⁹ 47 C.F.R. §§ 1.1204(b)(1).