



Federal Communications Commission  
Washington, D.C. 20554

May 6, 2021

Ms. Patricia Cooper  
SpaceX Services, Inc.  
1155 F Street, N.W.  
Washington, DC 20004  
Email: [Patricia.Cooper@spacex.com](mailto:Patricia.Cooper@spacex.com)

Re: Gateway Earth Station: SpaceX Services, Inc.  
IBFS File No. SES-LIC-20201023-01173, Call Sign: E202179

Dear Ms. Cooper:

On October 23, 2020, SpaceX Services, Inc. (SpaceX) filed the above referenced application for a gateway earth station to operate in Wise, NC. The application must demonstrate compliance with rules concerning compatibility with Upper Microwave Flexible Use Service (UMFUS) operations.<sup>1</sup> We request that SpaceX submit the following information to clarify or supplement its initial showing:

- 1) In accordance with 47 CFR § 25.136(a)(4)(ii), for the portion of the analysis that contains plots of the proposed PFD contour, please identify the county boundaries on each plot, and include a map legend inlay with a distance/mileage scale for measuring the relative size of the proposed contour.
- 2) In accordance with 47 CFR § 25.136(a)(4)(ii), specify whether and to what extent SpaceX is using a "clear sky power" value. SpaceX's demonstrations should take into account worst case input power density in addition to input power density during clear sky conditions. If relying on clear sky conditions, please explain why that assumption is appropriate for the specific circumstances and location.
- 3) In accordance with 47 CFR § 25.136(a)(4)(iii), SpaceX is requested to certify that the earth station's PFD contour will not cross any roads classified as "Other Freeways and Expressways or Other Principal Arterials," based on more than a simple visual inspection using Google-Earth software. If SpaceX plans to rely on terrain, clutter and/or shielding installation to comply with requirements of these rules, SpaceX should provide details and analysis about these method(s) and mitigating effects, and how they will ensure compliance with the rules.

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<sup>1</sup> 47 CFR § 25.136. *See also* International Bureau Issues Guidance on Siting Methodologies for Earth Stations Seeking to Operate in the 24.75-25.25 GHz, 27.5-28.35 GHz, 37.5-40 GHz, 47.2-48.2 GHz, and 50.4-51.4 GHz Frequency Bands to Demonstrate Compliance with Section 25.136, Public Notice, Report No. SPB-281, DA 20-631 (June 16, 2020).

- 4) In accordance with 47 CFR § 25.136(a)(4)(iv), please provide the required coordination report.

Please submit this information within **30 days** of the date of this letter.

Sincerely,

*Kerry E. Murray*

Kerry E. Murray  
Deputy Chief, Satellite Division  
International Bureau