

Renewal of Experimental Authority

Iridium Satellite LLC (“Iridium”) hereby requests renewal of its experimental authority¹ to transmit in the 1618.725-1626.5 MHz band from its space stations² to the Lumen-1 smallsat operated by Lumen Orbit, Inc. (“Lumen”). Lumen-1 was launched on November 2, 2025 aboard the SpaceX Bandwagon-4 mission.

Iridium requests an extension for a period of twelve (12) months to accommodate unforeseeable launch delays with the original mission. Extending authority for another year will allow Lumen to accomplish the mission described in Iridium’s initial application³ which contemplated an earlier launch date.

As set forth in Lumen’s original application,⁴ the goal of the mission is to test and demonstrate an in-orbit computing and data relay satellite network platform enabling real-time Earth imaging systems. Lumen hopes to provide continuous low-latency link and edge computing services for other satellite operators using existing, readily available RF hardware.

There will be no change during the experiment in the operating parameters of Iridium’s space stations, which are licensed as Part 25 space stations under Call Sign S2110. For this reason, no operating parameters, other than effective radiated power and emission designator, are used in the form that Iridium’s original application accompanied. The only change for which Iridium seeks authority is adding the Lumen-1 spacecraft as a point of communication. Iridium’s Part 25 space station license does not cover space-to-space communications.

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¹ Iridium Satellite LLC, FCC Call Sign WP2XIO, OET File No. 1233-EX-CN-2024 (granted Jun. 18, 2025).

² Iridium’s constellation is comprised of 66 satellites, any one of which may be used as part of the experiment at any point in time.

³ Application of Iridium Satellite LLC, OET File No. 1233-EX-CN-2024 (filed Dec. 13, 2024).

⁴ See Lumen Orbit, Inc., OET File No. 1019-EX-CN-2024 (filed Nov. 8, 2024)