

Request for Experimental Authority

Iridium Satellite LLC (“Iridium”) hereby requests an experimental license for a period of twenty-four months (24) months, beginning on October 1, 2026, to transmit from its space stations in the 1618.725–1626.5 MHz band¹ to the LizzieSat-4 and LizzieSat-5 satellites to be operated by Sidus Space, Inc. (“Sidus”) as part of the LizzieSat Constellation.

LizzieSat-4 and 5 satellites are planned as a part of a constellation of non-geostationary (“NGSO”) satellites for which Sidus has received authorization under Part 25 of the Commission’s rules.² Sidus has requested a modification that will authorize LizzieSat-4 and 5 to communicate with Iridium’s constellation using an Iridium model 9602 modem from each satellite.³ As with LizzieSat-3, a previously launched Sidus satellite that Iridium supported in similar fashion,⁴ communication with LizzieSat-4 and LizzieSat-5 will enable Sidus to test real-time processing of Earth observation data, including hyperspectral imaging, maritime domain awareness, and hosted payload services.

There will be no change during the experiment in the operating parameters of Iridium’s space stations. For this reason, no operating parameters, other than effective radiated power and an emission designator, are shown in the form that this exhibit accompanies. The only change for which Iridium seeks an experimental license is adding LizzieSat-4 and LizzieSat-5 as a points of communication for Iridium’s satellite constellation. Iridium’s Part 25 space station license does not cover space-to-space communications.

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¹ Iridium’s constellation licensed under Callsign S2110 is comprised of 66 satellites, any one of which may be used as part of the experiment at any point in time.

² See *Stamp Grant*, Sidus Space, Inc., FCC Call sign S3175, ICFS File No. SAT-LOA-20230613-00141; SAT-AMD-20240506-00094 (granted Oct. 1, 2024). Sidus’ authorization allows for construction, deployment, and operation of four NGSO satellites (LizzieSat-2 through 6). This application is for authorization to communicate with LizzieSat-4 and 5 only.

³ See Sidus Space, Inc., FCC Call sign S3175, ICFS File No. SAT-MOD-20260511-00194 (filed May 30, 2026).

⁴ Iridium Satellite LLC, Authorization to Communicate with LizzieSat-3, FCC Call sign WP2XIQ, OET File No. 1236-EX-CN-2024 (granted Feb. 12, 2025); see also *Stamp Grant*, Sidus Space, Inc., FCC Call sign S3175, ICFS File No. SAT-MOD-20241104-00248 (granted Jan. 15, 2025).