

Renewal of Experimental Authority

Iridium Satellite LLC (“Iridium”) hereby requests a two-year renewal of its experimental license to transmit from its space stations in the 1618.725–1626.5 MHz band¹ to the FGN-TUG-S01 satellite authorized by the Information and Communication Technologies Authority of Türkiye² and operated by Fergani Space Technologies (“Fergani”).

The goal of the FGN-TUG-S01 mission is to demonstrate and validate technologies for a future low Earth orbit (LEO) satellite. Fergani anticipates the mission to continue for at least another two years. The FGN-TUG-S01 has onboard one NSL EyeStar S4 (Iridium model 9603) modem that Fergani is using to communicate with the Iridium constellation.

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, were identified in Iridium’s original request for an experimental license. The only change for which Iridium seeks an extension of experimental authority is adding the FGN-TUG-S01 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’s constellation is comprised of 66 satellites, any one of which may be used as part of the experiment at any point in time.