

Amended Request for Experimental Authority

Iridium Satellite LLC (“Iridium”) seeks a two-year experimental license to transmit from its space stations to the OMNI-LER1 smallsat in the 1618.725–1626.5 MHz band.¹ Due to an unforeseeable launch delay, Iridium hereby amends its original request to seek an experimental license beginning on or before September 1, 2023 and to seek authority for a second modem.

As explained in Iridium’s Exhibit 1, which accompanied Iridium’s original application, the OMNI-LER1 mission is run by Internet Think Tank, Inc. (“Internet Think Tank”) to conduct research associated with measuring the behavior of blockchain technology in low earth orbit. Experiments will include transactions of data acquired from on-board sensors and use of smart contracts for automated transactions. The OMNI-LER1 cubesat carries a RockBLOCK model 9603 modem, as well as a Near Space Launch S4 model 9602 modem, to support data relay to mission control via space stations in Iridium’s “Big LEO” constellation.²

The original launch has been rescheduled on the SpaceX Falcon 9 Transporter 9 for no earlier than October 1, 2023. The Internet Think Tank has filed a new updated application reflecting the changes,³ and this companion application is amended to reflect the new launch date and to request a grant by **September 1, 2023** to accommodate the launch integrator’s requirements. All other information contained in Iridium’s Exhibit 1 remains the same and is hereby incorporated by reference.

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.

² The two modems will not operate simultaneously, but only one at a time.

³ Internet Think Tank, Inc., Application for Experimental Authority to Launch and Operate the OMNI-LER1 Satellite, OET File No. 0878-EX-CN-2023, filed Jun 2, 2023.