

### Request for Experimental Authority

Iridium Satellite LLC (“Iridium”) seeks an experimental license to transmit in the 1618.725-1626.5 MHz band from its space stations<sup>1</sup> to two spacecraft (one known as “Rock”, the other identified as “Lopen”) operated by Array Labs, which are scheduled to be launched no earlier than July 1, 2024.

It is expected that the Array Labs satellites, which will be powered on batteries with no solar or other recharging capability, will operate for only about two weeks. To cover the possibility of unanticipated delays, however, Iridium requests that its license cover a period of 24 months beginning July 1, 2024. And to satisfy the requirements of the launch integrators, Iridium requests that its license grant be issued by June 15, 2024.

As stated in Array Labs’ companion application,<sup>2</sup> the Rock & Lopen satellites are identical except for a proprietary coating on the Lopen spacecraft. The goal of the mission is to determine if the coating will affect drag.

Each Array Labs satellite will house a single Iridium transceiver modem (model 9603) that will communicate with the Iridium constellation. Transmission will begin two minutes after deployment and cease when the batteries are depleted, less than two weeks later.

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 this exhibit accompanies. The only change for which Iridium seeks an authority is adding the Rock & Lopen spacecraft as points of communication. Iridium’s Part 25 space station license does not cover space-to-space communications.

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<sup>1</sup> 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.

<sup>2</sup> See Array Labs, Inc., Application for Authority to Launch and Operate Rock & Lopen Experiment, OET File No. 0232-EX-CN-2024, filed Feb. 16, 2024.