

### Request for Experimental Authority

Iridium Satellite LLC (“Iridium”) hereby requests a two-year experimental license to transmit from its space stations to the CU Aerospace Dual Propulsion Experiment (“DUPLEX”) smallsat in the 1618.725–1626.5 MHz band.<sup>1</sup>

The DUPLEX is a 6U cubesat mission run by CU Aerospace to test and establish flight heritage for two polymer fiber propulsion systems in low earth orbit. As set forth in the CU aerospace application,<sup>2</sup> the DUPLEX carries two Near Space Launch (“NSL”) EyeStar S4 transceivers that will be used to transmit to space stations in Iridium’s “Big LEO” constellation in order to relay payload data.

The experiment will be launched no earlier than February 2023 aboard a CYGNUS resupply vehicle bound for the International Space Station (“ISS”). Once the CYGNUS departs the ISS, DUPLEX will be inserted into low earth orbit as described in CU’s application for experimental authority. This companion application is to allow the DUPLEX to communicate via the Iridium constellation to allow for TT&C and downlink of critical payload data.

NTIA Space Record Data for these DUPLEX transmissions as well as a NOAA License Waiver is included in CU Aerospace’s experimental license application and is hereby incorporated by reference.

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 identified in the form this exhibit accompanies or in Iridium’s original request for an experimental license. The only change for which Iridium seeks experimental authority is adding the DUPLEX as a point of communication. Iridium’s Part 25 space station license does not cover space-to-space communications.

Stop buzzer contact information:

Kathy Morgan  
703-795-6218  
kathy.morgan@iridium.com

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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> CU Aerospace, Application for Experimental Authority, OET File No. 0943-EX-CN-2022, filed Aug 25, 2022.