

Request for Special Temporary Authority

Cornell University (“Cornell”) has requested special temporary authority (“STA”) to operate a Quake QLOCATE short burst data (“SBD”) transceiver installed on each of its PAN project satellites (PAN A and PAN B) to communicate with mission operations via the Iridium constellation.¹ Iridium seeks this STA to add the PAN project satellites as points of communication since Iridium’s Part 25 space station license does not cover space-to-space communications.

To accommodate the spacecraft launch integrator’s requirements, Iridium respectfully requests that this request for STA be granted no later than April 1, 2019 for a six month period from May 1 to November 1, 2019.

The QLOCATE SBD modem is based on the Iridium 9602 chipset and will transmit from the PAN A and B space stations to space stations in Iridium’s “Big LEO” constellation. Iridium hereby requests STA to transmit in the reverse direction, from its Big LEO constellation to the modems on the PAN project satellites. The technical characteristics of these transmissions will be identical to the technical characteristics of Iridium’s already-licensed space station transmissions in the 1618.725–1626.5 MHz band.²

Iridium will operate under the requested STA in accordance with the parameters of its Part 25 license. Accordingly, no operating parameters other than effective radiated power and emission designator were used in the form that this exhibit accompanies. The only change from Iridium’s licensed operations is add Cornell’s PAN project satellites as points of communication. Iridium’s space station license does not cover intersatellite communications in the 1618.725–1626.5 MHz band.

¹ See File No. 2127-EX-ST-2018.

² Iridium’s constellation is licensed under Call sign S2110 and is comprised of 66 satellites, any one of which may be used as part of the experiment at any point in time.