

### **Request for Special Temporary Authority**

HERA Systems Incorporated (“HERA”) has requested special temporary authority (“STA”) to operate an Iridium 9602 modem on its 1HOPSat-1 satellite.<sup>1</sup> The modem will transmit to space stations in Iridium’s “Big LEO” constellation. For reasons stated below, Iridium asks that its STA request be granted no later than February 1, 2019.

Iridium hereby requests an STA to transmit in the reverse direction, from its Big LEO constellation to the 9602 modem on HERA’s 1HOPSat-1 satellite. The technical characteristics of these transmissions will be identical to the technical characteristic of Iridium’s already-licensed space station transmissions in the 1618.725–1626.5 MHz band.<sup>2</sup>

The spacecraft launch integrator for 1HOPSat-1 wants all spectrum approvals in place by the hand-off for integration. Accordingly, Iridium respectfully requests that its STA be granted no later than February 1, 2019.

Iridium’s space station constellation is licensed under Call Sign S2110. Because Iridium will be operating under the requested STA in accordance with the parameters of its license, no operating parameters, other than effective radiated power, were used in the form that this exhibit accompanies. The only change from Iridium’s licensed operations is that Iridium will be adding the modem on HERA’s 1HOPSat-1 satellite as a point of communication. Iridium’s space station license does not cover intersatellite communications in the 1618.725–1626.5 MHz band.

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<sup>1</sup> See File No. 1781-EX-ST-2018.

<sup>2</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.