

**HARRIS CORPORATION
EXPERIMENTAL STA REQUEST
FILE NO. 0390-EX-ST-2019**

EXHIBIT I - DESCRIPTION OF EXPERIMENT

Harris Corporation ("Harris") hereby requests experimental Special Temporary Authority ("STA") to support mobile end-to-end narrowband communications testing via the Omnispace F2 satellite on the frequency range of 1999.91-2000.11 MHz. Testing will occur at Harris facilities located in Rochester, NY¹ and Stafford, VA, as well as military installations located in San Diego, CA, Fort Greely, AK, and Elmendorf AFB, AK.

The testing will be conducted utilizing both a directional antenna and an omni-directional antenna.

The directional antenna will be configured as follows:

Width of beam in degrees at the half power point: 60° / 120°

Orientation in horizontal plane (degrees): ~180°

Orientation in vertical plane (degrees): 90° (straight up), 45°, -45°

ERP 22dBW

Antennas will be mounted on a tripod and will be articulated to point to 3 different areas in the sky (roughly on the east-west plane).

The omni-directional configuration will operate with and ERP of 14dBW.

Because the equipment is technically incapable of providing station identification, Harris respectfully requests a waiver of the station identification provisions of Section 5.115 of the Commission's rules, 47 C.F.R. § 5.115.

All network traffic will be simulated traffic only, solely for evaluation purposes and not for the purpose of providing network data communications services to user stations.

The **stop buzzer contact** for this project is Adam Lee at Harris, tel: 585-242-3851, e-mail: mlee12@harris.com

¹ Harris was previously authorized to conduct similar experimental testing at its Rochester, NY facility under File No. 0581-EX-ST-2018. An extension of that STA has been requested under File No. 0304-EX-ST-2019.