

**L3Harris Technologies, Inc.
Experimental STA Request
File No. 1571-EX-ST-2019**

EXHIBIT 1 - DESCRIPTION OF EXPERIMENT

L3Harris Technologies, Inc. ("L3Harris") hereby requests experimental Special Temporary Authority ("STA") for a period beginning September 18, 2019 through March 16, 2020 to conduct demonstrations for the National Aeronautics and Space Administration ("NASA") and the United States Department of Defense ("DOD"), as well as experimental testing of a UAS command and control component at Grand Forks AFB, North Dakota.

Utilizing the frequencies 2.47-2.49 GHz, L3Harris seeks to demonstrate and test how well the UAS will be controlled in a UAS Traffic Management environment by operating the UAS out to approximately 5 kilometers. The radio link will use terrestrial infrastructure to support the command and control component of the UAS instead of a point-to-point radio solution. The networked radio will provide insight into the best ways to properly network radios for expanding the distances a UAS can operate.

Because the equipment is technically incapable of providing station identification, L3Harris respectfully requests a waiver of the station identification provisions of Section 5.115 of the Commission's rules, 47 C.F.R. § 5.115.

L3Harris submits that a grant of this STA request is necessary and in the public interest as it is anticipated that it will lead to improvements in UAS networking.

The **stop buzzer contact** for the demonstrations and proposed testing is Chris Theisen, Director of Research and Development, Northern Plains UAS Test Site (Tele: 701-610-1357). **Alternate stop buzzer contact-** Herb Rose of L3Harris (Mobile: 703-380-0208, Office: 703-790-6381).