

**L3HARRIS TECHNOLOGIES, INC.  
EXPERIMENTAL LICENSE APPLICATION  
FILE NO. 0726-EX-CN-2020**

**REVISED EXHIBIT 1 - DESCRIPTION OF EXPERIMENT (Feb. 2021)**

L3Harris Technologies, Inc. ("L3Harris") hereby requests an experimental authorization to operate an experimental S-band ground terminal located in Palm Bay, Florida to conduct antenna testing in support of government contracts.

The S-band terminal will be used in support of US government programs for transmit testing to satellites in low earth orbit (~580km) above 40 degree inclination (40,54,70 degrees). The normal concept of operations (CONOPS) will be in support of initialization testing after launch for approximately two months, followed by contingency operations / testing for a day once every two weeks.

The terminal will consist of a TCS 4.2m S-band reflector mounted on an XY positioner capable of pointing at any elevation 10 degrees above the horizon at any azimuth.

L3Harris will not cause harmful interference to any stations operating in accordance with the Table of Frequency Allocations and will use its best efforts to avoid and mitigate any issues that may arise.

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.

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.

L3Harris submits that a grant of this experimental license request is necessary and in the public interest as it is anticipated that it will lead to commercial sensor improvements for earth sensing.

The **stop buzzer contact** for this project is Rod Nelson - Chief Engineer (Office: 321-729-2030; Mobile: 321-544-6477), e-mail: Rodney.Nelson@L3Harris.com.