

**L3HARRIS TECHNOLOGIES, INC.
EXPERIMENTAL STA APPLICATION
FILE NO. 0243-EX-ST-2021**

EXHIBIT 1 - DESCRIPTION OF EXPERIMENT

L3Harris Technologies, Inc. ("L3Harris") hereby requests FCC experimental Special Temporary Authority ("STA") for the period of March 15, 2021 to April 2, 2021 to conduct a project for the Department of Defense. The project sponsor requires L3Harris to obtain a STA to conduct the test. The transmission will occur at the Alabama Shipyard in Mobile, AL within a 2km radius of the following coordinates:
30-41-10.7 N, 088-01-58.7 W.

The project requires transmitting a 5 MHz signal (5M00W7D) within the following frequency ranges at an Effective Isotropic Radiated Power (EIRP) not to exceeds 300.0 Watts:

- 746.000 MHz to 756.000 MHz
- 864.000 MHz to 891.000 MHz
- 1930.000 MHz to 1995.000 MHz
- 2110.000 MHz to 2155.000 MHz

The project uses a narrow beam width (60 degree at half power point) directional antenna positioned no greater than 4 meters above ground level and aimed in an elevation parallel to the ground. The azimuth orientation is East-Southeast (130 degrees). The direction of transmit is unpopulated swamp land (Pinto Pass), bordered on the East-Southeast by Mobile Bay. The transmit location is a restricted access area approximately 0.5 km from the nearest civilian area.

Transmissions will occur intermittently and non-simultaneously on a single channel within the aforementioned frequency ranges. The total transmission time will be limited to no more than 3 hours per day on 5 days within the requested period.

L3Harris acknowledges that all experimental operations conducted in the requested frequency bands will be on a non-interference basis. L3Harris believes that no interference issues will arise from the experimental testing. However, to the extent necessary, L3Harris will utilize its best efforts to avoid and minimize any potential interference.

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 request is necessary and in the public interest because it will advance national security efforts by contributing and assisting in the further development of equipment utilized by the Department of Defense.

The stop buzzer contact for this project is Richard Roosa, Sr. Manager Advanced Programs at L3Harris, tel: 321-223-9551. Email – Rich.Roosa@L3Harris.com