

**L3HARRIS TECHNOLOGIES, INC.
EXPERIMENTAL STA APPLICATION
FILE NO. 0246-EX-ST-2020**

EXHIBIT 1 - DESCRIPTION OF EXPERIMENT

L3Harris Technologies, Inc. ("L3Harris") hereby requests experimental Special Temporary Authority ("STA") to support experimental testing and development of a handheld video data link unit. The proposed testing will test advancements of existing waveforms as well as the ability to receive and transmit full motion video, images, and data over the air in a point-to-point or networked configuration. The experiment will utilize two radios sending a combination of full motion video, images, data, and telemetry. Testing will occur indoors in a lab based environment at a L3Harris facility located at 1000 Sawgrass Corporate Parkway, Sunrise, Florida 33323.

L3Harris is submitting separate STA requests for a number of frequencies in which testing is proposed. Within this request L3Harris has selected the C band frequency range of 4400 MHz to 4940 MHz and the Ku band frequency range of 14400 MHz to 14800 MHz for the testing proposed herein.¹

L3Harris acknowledges that all experimental operations conducted in the requested bands will be on a non-interference basis. Owing to the indoor lab based nature of the testing coupled with the requested low transmission power levels, L3Harris believes that no interference issues will arise from the testing. However, to the extent necessary, L3Harris will utilize its best efforts to avoid and minimize any potential interference. Further, L3Harris will coordinate as necessary with the FCC licensee(s) in the frequency bands requested herein.

All experimental testing will be conducted in conjunction with the development of equipment utilized by US Military forces. Accordingly, the applicable POC/Contract information is provided below.

Applicable Government Contract(s) and POC:

Trevor Kushmaul, Program Manager
AFLCMC/WISN - Battlefield Airmen
Wright Patterson AFB, OH 45433
Contract Number: FA8629-18-D-5009
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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.

¹ L3Harris acknowledges there may be required frequency notch outs within these ranges.

L3Harris submits that a grant of this STA request is necessary and in the public interest because it will advance national security efforts by contributing and assisting in the further development of communications equipment utilized by the U.S. Armed Forces.

The **stop buzzer contact** for this project is Drew Donovan, Engineer at L3Harris, tel: 808-772-1346, e-mail: drew.donovan@l3harris.com