L3HARRIS TECHNOLOGIES, INC.
EXPERIMENTAL LICENSE REQUEST
FILE NO. 0107-EX-CN-2021

EXHIBIT I – REQUEST FOR EXPERIMENTAL AUTHORITY AND DESCRIPTION OF EXPERIMENT

L3Harris Technologies, Inc. ("L3Harris") hereby submits this FCC Form 442 request for experimental authority to develop/test waveforms and conduct demonstrations utilizing select frequencies within the L Band frequency range of 1780 – 1840 MHz[1] for use in both future and current L3Harris communications equipment. Testing will occur in Dulles, Virginia within a 20 kilometer radius of the following coordinates: 38-57-27 NL; 077-27-06 WL.

L3Harris had previously been granted experimental Special Temporary Authority ("STA") for the frequencies requested herein under File #0951-EX-ST-2020, Call Sign WQ9XQK for the period of September 1, 2020 to March 1, 2021. Because that STA grant was issued with the special condition noted below, this request is being filed on FCC Form 442 with a requested term of ten months. If the Commission is unable to approve for a ten month term L3Harris respectfully requests a term of at least six months-

Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered

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:
Contract: NNA10DF16B; Task Order MMA13AB87T (T05)
DOD – USAF
Contact: James Fisher
Phone: 749-567-0449 Cell: 719-374-2526
Email: james.fisher.38@us.af.mil

[1] L3Harris has selected the following L Band frequencies ranges of 1780-1796 MHz, 1804-1821 MHz, & 1827-1840 MHz pursuant to prior FCC restrictions on operation within the 1796-1804 MHz and 1821-1827 MHz bands (*See Special Condition 5 under previously issued STA authorization, FCC Call Sign WQ9XQK, File #0951-EX-ST-2020*)

L3Harris acknowledges that all experimental operations conducted in the requested bands will be on a non-interference basis. 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 band requested herein.

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 will adhere to any Special Conditions, including those issued under FCC File No. 0951-EX-ST-2020, namely:

(1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
(2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
(4) L3Harris Technologies, Inc. must submit a stop buzzer name, phone number, and email to the DHS spectrum office prior to operations, jason.chabot@hq.dhs.gov and agree to immediate cease operations at the request of the Department for any reason, to include, but not limited to EMI.
(5) Operation is not permitted in 1796-1804 MHz and 1821-1827 MHz bands.

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 communications equipment utilized by the U.S. Armed Forces.

The **stop buzzer contact** for this project is Bob Ness, Engineer at L3Harris, tel: 703-342-6932. Email – bob.ness@l3harris.com