

**L3HARRIS TECHNOLOGIES, INC.
EXPERIMENTAL STA REQUEST
FILE NO. 0039-EX-ST-2021**

**REVISED EXHIBIT I – REQUEST FOR EXPERIMENTAL
SPECIAL TEMPORARY AUTHORITY**

L3Harris Technologies, Inc. ("L3Harris") hereby requests FCC experimental Special Temporary Authority ("STA") for the period of March 8, 2021 to September 8, 2021 to conduct experimental testing utilizing unlicensed spectrum in the 2.4 GHz band. L3Harris proposes to conduct limited experimental transmissions from the International Space Station ("ISS") to a receive only ground station located in Daytona Beach, FL.¹ The purpose of the proposed experimental transmissions from the ISS is to evaluate the feasibility of 3-D printing of RF circuits for space systems.

The proposed transmissions from the ISS to the Daytona Beach, FL ground station will only occur periodically. The radiating transmitter from the ISS will be in off mode the majority of time, however it will be activated for a few minutes when a line of sight is established over the ground station. Data will be taken as the ISS flies over the ground station and then it will be turned off. It is estimated to be turned on once a day if the ISS is over the ground station.

This STA request is predicated on a request from The National Aeronautics and Space Administration ("NASA") for L3Harris to obtain an experimental STA authorization. Although L3Harris believes it is within the power and gain requirements to act as an unlicensed system, this request is being submitted pursuant to the NASA request.

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.

The **stop buzzer contact** for this project is Jeffrey Buell, MISSE Lead Operator at Alpha Space, tel: 832-915-5405. Email – Jeffrey.buell@alphaspace.com. Alpha Space provides monitoring operations 24/7.

¹ The Daytona Beach, FL receive only ground station is located at 29-11-02 NL 081-02-36 WL