

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WS9XES

(Call Sign)

XT MO

(Class of Station)

0719-EX-ST-2021

(File Number)

NAME L3Harris Advanced Systems and Technology

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

The operations requiring this STA are for test and development purposes. The transmissions will be of a telemetry and telecommand nature.

Station Locations

- (1) MOBILE: WSMR, NM. Temporary testing up to 20,000' AGL, within 80 km, centered around NL 33-22-00; WL 106-31-17
- (2) MOBILE: Holloman AFB, NM. Temporary testing at ground level; indoor/outdoor, within 2 km, centered around NL 32-50-29; WL 106-05-12
- (3) MOBILE: WSMR, NM. Temp. testing at ground level; outdoor, within 50 km, centered around NL 33-22-00; WL 106-31-17

Frequency Information

MOBILE: WSMR, NM. Temporary testing up to 20,000' AGL, within 80 km, centered around NL 33-22-00; WL 106-31-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	210KF1D	0.6 W (ERP)	0.00015 %
1350-1390 MHz	MO	180KF1D	1 W (ERP)	0.00015 %

This authorization effective June 07, 2021 and
will expire 3:00 A.M. EST October 30, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: WSMR, NM. Temporary testing up to 20,000' AGL, within 80 km, centered around NL 33-22-00; WL 106-31-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2450 MHz	MO	3M03G1D	6 W (ERP)	0.0004 %

MOBILE: Holloman AFB, NM. Temporary testing at ground level; indoor/outdoor, within 2 km, centered around NL 32-50-29; WL 106-05-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1350-1370 MHz	MO	180KF1D	1 W (ERP)	0.00015 %

MOBILE: WSMR, NM. Temp. testing at ground level; outdoor, within 50 km, centered around NL 33-22-00; WL 106-31-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1350-1390 MHz	MO	180KF1D	14 W (ERP)	0.00015 %

Special Conditions:

- (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.
- (3) 3Harris Advanced Systems and Technology must schedule all operations as a White Sands Missile Range (WSMR) mission, through their WSMR Range Sponsor. Final authority to radiate is contingent upon successful scheduling and de-confliction of both airspace and spectrum with other area operations by the WSMR ISM.
- (4) L3HARRIS ADVANCED SYSTEMS AND TECHNOLOGY MAY NOT OPERATE IN THE 1350 – 1390 MHZ BAND UNTIL AFTER 31 JULY 2021 DUE TO CURRENT ONGOING FEDERAL TESTING.
- (5) 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.

Special Conditions:

- (6) At the Holloman AFB Location: The 1370 – 1390 MHz band must be notched out in order to avoid interference to federal operations and all Ground Operations must be coordinated with the Holloman AFB Spectrum Manager, at 575-572-3396, at least 96 hours prior to activation.
- (7) All operations within the frequency band 2400-2450 MHz need to be coordinated a minimum of 72 hours prior to operations by L3Harris or its military sponsor with the Navy Detachment White Sands Frequency Spectrum Manager, Rogelio Ramirez Jr, at (575) 616-9062, Rogelio.Ramirez@navy.mil so that they can deconflict operations with scheduled testing and obtain cease-buzzer information.
- (8) L3Harris Advanced Systems and Technology coordinate operations with the VLBA/VLA point of contact: Dan "Mert" Mertely, nrao-rfi@nrao.edu, phone: (575) 835-7128.
- (9) All operations shall comply with the limits of unwanted emission recommendations specified in ITU Resolution 750 (Rev. WRC-19).
- (10) L3Harris Advanced Systems and Technology must adhere to conditions previously coordinated with the FAA under WebFCR coordination number NG T210327.
- (11) L3Harris Advanced Systems and Technology should be aware the 1350-1390 MHz is protected by footnote US342 and close to a key band protected by footnote US246 (1400-1427 MHz). The proposed frequency range of operation is also used by radio astronomy sites for observation of redshifted signals from this important protected band. L3Harris Advanced Systems and Technology take care in the future to avoid operations in this frequency range near radio astronomy observatories.
- (12) The stop buzzer POC is Brandon Dawson at (214) 697-6121.
- (13) Prior to commencing any operations in the frequencies below, the licensee must obtain consent from the following within 50 miles of the contours of the testing area:
 - Location & Monitoring Service licensees (902-928 MHz)