

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WL2XZW

(Call Sign)

XD MO

(Class of Station)

0589-EX-CR-2021

(File Number)

NAME L3Harris Advanced Systems and Technology

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) MOBILE: Ashburn, VA. Temp testing at gnd level; in/outdoor, within 2 km, centered around NL 39-01-28; WL 77-27-32
- (2) MOBILE: WSMR, NM. Temporary testing GND to 20,000' AGL, within 80 km, centered around NL 33-22-00; WL 106-31-17
- (3) MOBILE: WSMR, NM. Temp testing at ground level; outdoor, within 80 km, centered around NL 33-22-00; WL 106-31-17

Frequency Information

MOBILE: Ashburn, VA. Temp testing at gnd level; in/outdoor, within 2 km, centered around NL 39-01-28; WL 77-27-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	210KF1D	0.7 W (ERP)	0.00015 %
902-928 MHz	MO	210KF1D	20 W (ERP)	0.00015 %
1625-1660.5 MHz	MO	23M7G1D	7 W (ERP)	5.0E-6 %

This authorization effective October 30, 2021 and
will expire 3:00 A.M. EST November 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Ashburn, VA. Temp testing at gnd level; in/outdoor, within 2 km, centered around NL 39-01-28; WL 77-27-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1668.4-1675 MHz	MO	6M50G1D	7 W (ERP)	5.0E-6 %
2400-2450 MHz	MO	3M03G1D	6 W (ERP)	0.0004 %
2400-2450 MHz	MO	4M06G1D	8 W (ERP)	0.0004 %

MOBILE: WSMR, NM. Temporary testing GND 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	0.7 W (ERP)	0.00015 %
1625-1675 MHz	MO	23M7G1D	7 W (ERP)	5.0E-6 %
2400-2450 MHz	MO	3M03G1D	6 W (ERP)	0.0004 %

MOBILE: WSMR, NM. Temp testing at ground level; outdoor, 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	20 W (ERP)	0.00015 %

Frequency Information

MOBILE: WSMR, NM. Temp testing at ground level; outdoor, 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	4M06G1D	244 W (ERP)	0.0004 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Prior to commencing any operations in the frequencies below, the licensee must obtain consent from the following within 200 miles of the contours of the testing area:
 - Location & Monitoring Service licensees (902-928 MHz)
- (5) For White Sands Missile Range (WSMR) and Silver Top Mountain, NM; L3Harris Advanced Systems and Technology must schedule all operations as a WSMR Range 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 Installation Spectrum Manager.
- (6) For Holloman AFB, NM: Access to Holloman requires a Program Sponsor. L3Harris Advanced Systems and Technology must schedule all operations as a White Sands Missile Range Mission, through the 586 FLTS Det 1 office. Ground testing at Holloman must be coordinated with the Holloman AFB Spectrum Manager, at 575-572-3392, at least 72 hours prior to activation. Final authority to radiate is contingent upon successful scheduling and de-confliction of both airspace and spectrum with other regional operations.
- (7) For Eglin, FL and Santa Rosa Island, FL, L3Harris Advanced Systems and Technology may not operate in 2400-2450 MHz band due to possible HIA with flight line WIFI systems.
- (8) For Eglin AFB, FL and Santa Rosa Island, FL, Prior to operations in the 902-928 MHz band L3Harris Advanced Systems and Technology must schedule in CSE with Kevin McElroy, kevin.mcelroy.3.ctr@us.af.mil, 850-882-7077 and Daniel Austin, daniel.austin.14@us.af.mil, 850-882-1410.
- (9) L3Harris Advanced Systems and Technology must coordinate with Mr. Roger Ramirez, (C) 575-616- 9062, rogelio.ramirez@navy.mil at least 72 hours prior to transmitting to allow deconfliction with any planned Navy range operations.

Special Conditions:

- (10) Prior to commencing any operations in the 1625- 1626.5 MHz frequency band, experimental licensee must notify licensee of Iridium Satellite LLC (Call sign E960132, E960622, POC/Satellite: S2110. Name: Ms Maureen C. McLaughlin, Phone Number: 703-287-7518, E-Mail: maureen.mclaughlin@iridium.co). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Special Conditions:

- (11) Prior to commencing any operations in the 1626.5-1660.5 MHz (E-S) frequency bands, experimental licensee must notify licensees of earth stations. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test. Please notify the following licensees:

Call Sign: E100192, E030055

Frequency bands: 1626.5 - 1645.5 MHz

Licensee: ORBCOMM License Corp.

ATTN: Mr. Walter H. Sonnenfeldt,

Phone Number: 585-461-3018, E-Mail: sonnenfeldt.walter@orbcomm.com)

Call Sign: E090029

Frequency bands: 1631.5 - 1645.5 MHz, 1646.5 - 1660.5 MHz

Licensee: COMTECH MOBILE DATACOM CORP.

Phone Number: 240-686-3300

Fax Number: 240-686-3301

E-Mail: John.Fossaceca@comtechmobile.com

Attention: John Fossaceca

Name: Joan M. Griffin Phone Number: 202-342-8573

Company: Kelley Drye & Warren LLP

Fax Number: 202-342-8451

E-Mail: jgriffin@kelleydrye.com

Attention: Relationship: Legal Counsel

Call Sign: E090032

Frequency bands: 1626.5 - 1660.5 MHz

Licensee: ISAT US Inc. and Inmarsat Solutions (US) Inc.

Tel: (202) 696-1400

Fax: (202) 248-5177

Contact: M. Ethan Lucarelli

Email: Ethan.Lucarelli@inmarsat.com

Name: Timothy J. Cooney Phone Number: 2027834141 E-Mail: tcooney@wbklaw.co

Company: Wilkinson Barker Knauer, LLP Fax Number: 2027835851 Relationship:

Legal Counsel

Call Sign: E020074

Licensee: Honeywell International Inc.

Frequency bands: 1626.5 - 1645.5 MHz

Phone Number: 2026267719

Fax Number: 2027832331

E-Mail: balaguer@fr.com

Attention: c/o Donna Balaguer