

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WL2XHQ

(Call Sign)

0672-EX-CN-2020

(File Number)

NAME L3Harris Technologies

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(c) of the Commission's Rules

Station Locations

- (1) Malabar (BREVARD), FL - NL 27-58-48; WL 80-33-18
- (2) Malabar (BREVARD), FL - NL 27-58-48; WL 80-33-18
- (3) Malabar (BREVARD), FL - NL 27-58-48; WL 80-33-18

Frequency Information

Malabar (BREVARD), FL - NL 27-58-48; WL 80-33-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
100-190 kHz	FX	NON	1.33 W (ERP)	
194.9845 kHz	FX	NON	1.33 W (ERP)	
202.8831 kHz	FX	NON	1.33 W (ERP)	
210.7818 kHz	FX	NON	1.33 W (ERP)	

This authorization effective December 01, 2020 and
will expire 3:00 A.M. EST October 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Malabar (BREVARD), FL - NL 27-58-48; WL 80-33-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
226.5791 kHz	FX	N0N	1.33 W (ERP)	
234.4778 kHz	FX	N0N	1.33 W (ERP)	
266.0725 kHz	FX	N0N	1.33 W (ERP)	
286.3798 kHz	FX	N0N	1.33 W (ERP)	
297.3367 kHz	FX	N0N	1.33 W (ERP)	
308.2936 kHz	FX	N0N	1.33 W (ERP)	
319.2505 kHz	FX	N0N	1.33 W (ERP)	
352.1212 kHz	FX	N0N	1.33 W (ERP)	
363.0781 kHz	FX	N0N	1.33 W (ERP)	
406.2872 kHz	FX	N0N	1.33 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
421.5121 kHz	FX	N0N	1.33 W (ERP)	
436-509 kHz	FX	N0N	1.33 W (ERP)	
535-1000 kHz	FX	N0N	1.33 W (ERP)	
1-5.9 MHz	FX	N0N	1.33 W (ERP)	
6.2-7.2 MHz	FX	N0N	1.33 W (ERP)	
7.45-9.4 MHz	FX	N0N	1.33 W (ERP)	
9.9-11.6 MHz	FX	N0N	1.33 W (ERP)	
12.1-13.3 MHz	FX	N0N	1.33 W (ERP)	
13.5-13.57 MHz	FX	N0N	1.33 W (ERP)	
13.87-15.1 MHz	FX	N0N	1.33 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.8-17.48 MHz	FX	N0N	1.33 W (ERP)	
17.9-18.9 MHz	FX	N0N	1.33 W (ERP)	
19.02-20 MHz	FX	N0N	1.33 W (ERP)	

Malabar (BREVARD), FL - NL 27-58-48; WL 80-33-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20-21.45 MHz	FX	N0N	1.33 W (ERP)	
21.85-25.5 MHz	FX	N0N	1.33 W (ERP)	
26.1-37 MHz	FX	N0N	1.33 W (ERP)	
39-73 MHz	FX	N0N	1.33 W (ERP)	
76-108 MHz	FX	N0N	1.33 W (ERP)	
137-200 MHz	FX	N0N	1.33 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
200-328.5 MHz	FX	N0N	1.33 W (ERP)	
335.5-406 MHz	FX	N0N	1.33 W (ERP)	
410-608 MHz	FX	N0N	1.33 W (ERP)	
614-757 MHz	FX	N0N	1.33 W (ERP)	
769-787 MHz	FX	N0N	1.33 W (ERP)	
799-960 MHz	FX	N0N	1.33 W (ERP)	

Special Conditions:

- (1) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.

Special Conditions:

- (6) Prior to commencing any operations in the frequencies below, L3Harris Technologies must obtain consent from the following within 50 miles of the contours of the testing area:
- Paging Service licensees in 35 MHz
 - Paging Service licensees in 43 MHz
 - Paging Service licensees in 152 MHz
 - Paging Service licensees in 158 MHz
 - Paging Service licensees in 152 MHz/158 MHz
 - AMTS Licensee (217-218 MHz/219-220 MHz)
 - 218-219 MHz Service licensees
 - 220-222 MHz Service licensees
 - Paging Service licensees in 454 MHz/459 MHz
 - General Aviation Air-Ground Service in 454 MHz/459 MHz
 - 700 MHz licensees (698-758 MHz and 775-788 MHz)
 - SMR licensees (809-824 MHz/854-869 MHz)
 - B/ILT licensees (809-824 MHz/854-869 MHz)
 - Cellular licensees (824-849 MHz/869-894 MHz)
 - Commercial Air-Ground licensee (849-851 MHz/894-896 MHz)
 - SMR licensees (896-901 MHz/935-940 MHz)
 - B/ILT licensees (896-901 MHz/935-940 MHz)
 - Narrowband PCS licensees (901-902/930-931/940-941 MHz)
 - Location & Monitoring Service licensees (902-928 MHz)
 - Paging Service licensees in 929 MHz and 931 MHz
- (7) L3Harris Technologies must successfully secure consents from the Upper Microwave Flexible Use Service licensees in the proposed area prior to accessing to the frequency from 614 MHz to 698 MHz.
- (8) Licensee must successfully coordinate with the Fixed Microwave Service licensees in the proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to operation in frequency range from 928 MHz to 960 MHz
- (9) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number W15P7T-09-D-H001. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (10) The stop buzzer point of contact is Glen Allen at (321) 446-4931.

Special Conditions:

- (11) Prior to commencing any operations in the 137 -138 MHz frequency band, L3Harris Technologies must notify the earth station licensees listed below of its test dates and provide a stop buzzer in case of interference:

Callsign: E940534

Name: ORBCOMM License Corp.

Phone Number: 703-433-6300

E-Mail: Franco.Brad@ORBCOMM.com

Attention: B rad Franco

Name: Stephen L. Goodman

Company: Wilkinson Barker Knauer, LLP

Phone Number: 202-783-4141

E-Mail: sgoodman@wbklaw.com

Relationship: Legal Counsel

Prior to commencing any operations in the 137.0250 -138 MHz and 148.25-148.5850 MHz frequency bands, , L3Harris Technologies must notify the earth station licensees listed below of its test dates and provide a stop buzzer in case of interference:

File Number: SES-LIC-20190612-00769

Callsign: E190490

Name: Swarm Technologies, Inc.

Phone Number: 425-753-3349

E-Mail: sophie@swarm.space

Attention: D r. Sophie Arlow

Name: Kalpak Gude

Phone Number: 202-437-4484

E-Mail: kalpak@swarm.space

Attention: Kalpak Gude

Special Conditions:

- (12) Prior to commencing any operations in the 156.0125-162.0375 MHz (AIS) frequency band, L3Harris Technologies must notify Iridium Constellation LLC (Name: Ms Maureen C McLaughlin, Phone Number: 703-287-7518 E-Mail: : maureen.mclaughlin@iridium.com) or Name: Jennifer Hindin Phone Number: 202-719-4975 E-Mail: jhindin@wileyrein.com) of its test dates and provide a stop buzzer in case of interference.

Prior to commencing any operations in the 156.7625-156.7875 MHz (Automatic Identification System (AIS) (AIS 3)), 156.8125-156.8375 MHz (AIS 4), 161.9625-161.9875 MHz (AIS 1), 162.0125-162.0375 MHz (AIS 2), 161.9375-161.9625 MHz (Application Specific Messages (ASM) (ASM 1)), 161.9875-162.0125 MHz (ASM 2) frequency bands, L3Harris Technologies must notify Spire Global, Inc. (Name: Jonathan Rosenblatt, Phone Number: 628-221-5324 E-Mail: jonathan.rosenblatt@spire.com) of its test dates and provide a stop buzzer in case of interference.

Prior to commencing any operations in the 156.7625-156.7875 MHz (Automatic Identification System (AIS) (AIS 3)), 156.8125-156.8375 MHz (AIS 4), 161.9625-161.9875 MHz (AIS 1), 162.0125-162.0375 MHz (AIS 2) frequency bands, L3Harris Technologies must notify HawkEye 360, Inc. (Name: Mr. Rob Rainhart, Phone Number: 571-203-0360 E-Mail: rob@he360.com or Mr. Michael Mineiro Phone Number: 571-203-0360 E-Mail: michael.mineiro@he360.com) of its test dates and provide a stop buzzer in case of interference.

Prior to commencing any operations in the 161-163 5 MHz frequency band (Automatic Identification System (AIS)), L3Harris Technologies must notify ORBCOMM License Corp. (Name: Walter H. Sonnenfeldt, Phone Number: 585-461-3018, Fax Number: 585-461-3476, E-Mail: sonnenfeldt.walter@orbcomm.com or Name: Stephen L. Goodman, Phone Number: 202-607-6756, E-Mail: Stephenlgoodman@aol.com) of its test dates and provide a stop buzzer in case of interference.

- (13) Prior to commencing any operations in the 400.15 – 401 MHz frequency band, L3Harris Technologies must notify the earth station licensees listed below of its test dates and provide a stop buzzer in case of interference:
Name: Hiber Inc.
Phone Number: 240-274-0184
E-Mail: bruce@hiber.global
Attention: Bruce Henoeh
Name: Lynne Montgomery
Phone Number: 202-383-3397
E-Mail: lmontgomery@wbklaw.com
Attention: Relationship: Legal Counsel
- (14) The following frequency bands must be notched out during operation:
412.525-412.55 MHz, 412.922-412-95 MHz, 413.10-413.125 MHz,
413.5875-413.625 MHz.