

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WJ2XBS

(Call Sign)

0694-EX-CN-2017

(File Number)

NAME Johns Hopkins Applied Physics Laboratory

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) Laurel (HOWARD), MD - NL 39-05-57; WL 76-50-54
- (2) Laurel, MD - NL 39-05-57; WL 76-50-54

Frequency Information

Laurel (HOWARD), MD - NL 39-05-57; WL 76-50-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3-5.9 MHz	FX	50K0L2A	1000 W (ERP)	
6.2-7.2 MHz	FX	50K0L2A	1000 W (ERP)	
7.45-9.4 MHz	FX	50K0L2A	1000 W (ERP)	
9.9-11.6 MHz	FX	50K0L2A	1000 W (ERP)	

This authorization effective December 06, 2017 and
will expire 3:00 A.M. EST June 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Laurel (HOWARD), MD - NL 39-05-57; WL 76-50-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12.1-13.57 MHz	FX	50K0L2A	1000 W (ERP)	
13.87-15.1 MHz	FX	50K0L2A	1000 W (ERP)	
15.8-17.48 MHz	FX	50K0L2A	1000 W (ERP)	
17.97-18.9 MHz	FX	50K0L2A	1000 W (ERP)	
19.02-21.45 MHz	FX	50K0L2A	1000 W (ERP)	
21.85-25.67 MHz	FX	50K0L2A	1000 W (ERP)	
26.1-30 MHz	FX	50K0L2A	1000 W (ERP)	

Laurel, MD - NL 39-05-57; WL 76-50-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2-5.9 MHz	FX	50K0F2B 50K0L2A	900 W (ERP)	
6.2-7.2 MHz	FX	50K0L2A	900 W (ERP)	

Frequency Information

Laurel, MD - NL 39-05-57; WL 76-50-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.2-7.2 MHz	FX	50K0F2B	900 W (ERP)	
7.45-9.4 MHz	FX	50K0L2A 50K0F2B	900 W (ERP)	
9.9-11.6 MHz	FX	50K0F2B 50K0L2A	900 W (ERP)	
12.1-13.57 MHz	FX	50K0L2A 50K0F2B	900 W (ERP)	
13.87-15.1 MHz	FX	50K0F2B 50K0L2A	900 W (ERP)	
15.8-17.48 MHz	FX	50K0F2B 50K0L2A	900 W (ERP)	
17.9-18.9 MHz	FX	50K0F2B 50K0L2A	900 W (ERP)	
19.02-21.45 MHz	FX	50K0F2B 50K0L2A	900 W (ERP)	
21.85-25.67 MHz	FX	50K0L2A	900 W (ERP)	

Frequency Information

Laurel, MD - NL 39-05-57; WL 76-50-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21.85-25.67 MHz	FX	50K0F2B	900 W (ERP)	
26.1-30 MHz	FX	50K0L2A 50K0F2B	900 W (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (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) Operation is prohibited and the following frequency bands must be notched out:
 - 2.495-2.505 MHz
 - 2.850-3.025 MHz
 - 3.400-3.500 MHz
 - 4.650-4.700 MHz
 - 4.995-5.005 MHz
 - 5.900-6.200 MHz
 - 6.525-6.685 MHz
 - 7.200-7.450 MHz
 - 8.815-8.965 MHz
 - 9.400-12.100 MHz
 - 13.260-13.360 MHz
 - 13.570-13.870 MHz
 - 15.100-15.800 MHz
 - 17.480-17.900 MHz
 - 18.900-19.020 MHz
 - 19.990-20.010 MHz
 - 21.450-21.850 MHz
 - 21.924-22.000 MHz
 - 24.990-25.010 MHz
 - 25.670-26.100 MHz

Special Conditions:

- (5) 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 1643773. 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.