

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

EXPERIMENTAL

(Nature of Service)

WK9XGK

(Call Sign)

XT FX

(Class of Station)

1197-EX-ST-2016

(File Number)

NAME The Johns Hopkins University Applied Physics Laboratory (JHU/APL)

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:

Data gathering experiment to capture surface reflected signals for evaluation of a concept to minimize the effect of RF signal multipath.

Station Locations

(1) Laurel (HOWARD), MD - NL 39-09-27; WL 76-53-55

Frequency Information

Laurel (HOWARD), MD - NL 39-09-27; WL 76-53-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10 GHz	FX	1K00N0N	100 W (ERP)	
11 GHz	FX	1K00N0N	100 W (ERP)	

Special Conditions:

- (1) 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.

This authorization effective September 01, 2016 and
will expire 3:00 A.M. EST March 01, 2017

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COMMISSION**



Special Conditions:

- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Licensee is required to coordinate operations with existing microwave users in 11 GHz in the area to avoid interference.
- (4) Operation is not permitted in 9 GHz.
- (5) Prior to the start of operations in the 11 GHz band, experimental licensee must notify all the earth stations in the frequency band 10999.5 – 11000.5 MHz within 15 km of their operations by e-mail. This notice must include the name and contact information of the stop buzzer personnel in order to notify the test operator(s) to shut down in case of interference. The notification should also include the testing parameters and the day and times of each test. Consult MyIBFS database on the FCC.GOV website to identify all existing registered earth stations in the frequency band 10999.5 - 11000.5 MHz.
- (6) Prior to the start of operations in the 11 GHz band, experimental licensee must notify all of the National Spectrum Managers Association (NSMA) frequency coordinators by e-mail. This notice must include the name and contact information of the stop buzzer personnel. It must also include the testing parameters, day and times of each testing. NSMA contact information can be found on the website:
http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave
- (7) 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.