

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

EXPERIMENTAL

(Nature of Service)

WQ9XNV

(Call Sign)

XT FX MO

(Class of Station)

0797-EX-ST-2020

(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:

Performance characterization of a small concept radar to specific radar target responses.

Station Locations

- (1) MOBILE: College Park, MD, within 0.5 km, centered around NL 38-58-27; WL 76-55-16
- (2) College Park, MD - NL 38-58-27; WL 76-55-16
- (3) College Park, MD - NL 38-58-27; WL 76-55-16

Frequency Information

MOBILE: College Park, MD, within 0.5 km, centered around NL 38-58-27; WL 76-55-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.3 GHz	MO	50M0Q3N	4 W (ERP)	0.01 %
9.6 GHz	MO	50M0Q3N	4 W (ERP)	0.01 %

This authorization effective August 01, 2020 and
will expire 3:00 A.M. EST November 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: College Park, MD, within 0.5 km, centered around NL 38-58-27; WL 76-55-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11 GHz	MO	50M0Q3N	4 W (ERP)	0.01 %
12.5 GHz	MO	50M0Q3N	4 W (ERP)	0.01 %
15.5 GHz	MO	50M0Q3N	4 W (ERP)	0.01 %
17 GHz	MO	50M0Q3N	4 W (ERP)	0.01 %

College Park, MD - NL 38-58-27; WL 76-55-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.3 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %
9.6 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %
11 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %
12.5 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %
15.5 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %

Frequency Information

College Park, MD - NL 38-58-27; WL 76-55-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
17 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %

College Park, MD - NL 38-58-27; WL 76-55-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.3 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %
9.6 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %
11 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %
12.5 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %
15.5 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %
17 GHz	FX	50M0Q3N	4 W (ERP)	0.01 %

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.

Special Conditions:

- (3) The licensee must coordinate with the Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) prior to operation in the frequency band centered at 11 GHz and 12.5 GHz.
- (4) Stop buzzer: Joseph Sluz
Phone: 240-228-7516
Email: Joseph.Sluz@jhuapl.edu
- (5) Prior to commencing any operations in the 12.5 GHz (which falls within the 12.2-12.7 GHz band) frequency band, the applicant must notify the earth station licensees listed below of its test dates and provide a stop buzzer in case of interference:

Contact: Raquel Noriega
Company: Direct TV/AT&T
Director|Federal Regulatory AT&T
1120 20th Street NW Suite 1000|Washington, DC 20036-3406
m +1.202.412.5623|o +1.202.457.2141|raquel.noriega@att.com
Contact: Jaime Londono
Company: EchoStar
Email: Jaime.londono@echostar.com
Contact: Charles Ergen
Company: DISH Network
Email: charlie.ergen@dish.com

Special Conditions:

- (6) Prior to commencing any operations in the 8.3 GHz and 11 GHz frequency band, the applicant must notify the earth station licensees listed below of its test dates and provide a stop buzzer in case of interference:

Call Sign: E890197 File Number: SES-RWL-20090617-00757
 Licensee: DCI II, Inc.
 ATTN: Mr. Alan C Levin
 Phone: 202-775-4300
 Counsel: FLETCHER, HEALD & HILDRETH, PLC
 Phone: 703-812-0470 Fax: E-Mail:

Call Sign: E980183 File Number: SES-MOD-20101203-01497
 Licensee: Arqiva, Inc.
 ATTN: Mr. Chris Pristera
 Phone: 202-728-8601 , E-Mail: chris.pristera@arqiva.com
 Counsel: Latham & Watkins LLP
 Phone: 202-637-2200 Fax: E-Mail:

Call Sign: E150015 File Number: SES-MOD-20151028-00781
 Licensee: NBC Telemundo License LLC
 ATTN: Margaret L Tobey
 Phone: 202-524-6401 , E-Mail: margaret.tobey@nbcuni.com
 Counsel: NBC TELEMUNDO LICENSE LLC
 Phone: 202-524-6401

Call Sign: E150016 File Number: SES-LIC-20150220-00092
 Licensee: NBC Telemundo License LLC
 ATTN: Margaret L Tobey
 Phone: 202-524-6401 , E-Mail: margaret.tobey@nbcuni.com
 Counsel: NBC UNIVERSAL, INC.
 Phone: 202-524-6401

Call Sign: E020288 File Number: SES-MOD-20180918-02755
 Licensee: Globecom License Sub LLC
 ATTN: John Flynn
 Phone: 6314571347 , E-Mail: fccllicense@globecom.com
 Counsel: Wiley Rein LLP
 Phone: 202-719-4975

Call Sign: E120200 File Number: SES-LIC-20120710-00897
 Licensee: Globecom License Sub LLC
 ATTN: Julia Hanft
 Phone: 631-457-1144 , E-Mail: jhanft@globecom.com
 Counsel: FLETCHER, HEALD & HILDRETH, PLC
 Phone: 703-812-0484

Call Sign: E010089 File Number: SES-RWL-20110519-00602
 Licensee: ViaSat, Inc.
 ATTN: Mr. Daryl T Hunter
 Phone: 760-476-2583 , E-Mail: daryl.hunter@viasat.com
 Counsel: VIASAT, INC.

Special Phone: 760-476-2583

Call Sign: E100083 File Number: SES-MOD-20170727-00826
 Licensee: The Boeing Company
 ATTN: Ronald Center
 Phone: 206-544-6044
 Counsel: THE BOEING COMPANY
 Phone: 206-544-6044

Call Sign: E980375 File Number: SES-MOD-20120710-00639
 Licensee: DG Consents Sub, Inc.
 ATTN: Mr. Demetrius M. Anthony
 Phone: 703-480-6338 , E-Mail: demetrius.anthony@digitalglobe.com
 Counsel: LATHAM & WATKINS LLP
 Phone: 202-637-2200

Call Sign: E170138 File Number: SES-LIC-20170726-00805
 Licensee: SES Americom, Inc.
 ATTN: Ms Petra A Vorwig
 Phone: 202-478-7143 , E-Mail: petra.vorwig@ses.com
 Counsel: SES AMERICOM, INC.
 Phone: 1 609 987 4327

Call Sign: E170197 File Number: SES-LIC-20171027-01217
 Licensee: SES Americom, Inc.
 ATTN: Ms Petra A Vorwig
 Phone: 202-478-7143 , E-Mail: petra.vorwig@ses.com
 Counsel: SES AMERICOM, INC.
 Phone: 1 609 987 4327

Call Sign: E050287 File Number: SES-MFS-20160624-00607
 Licensee: SES Americom, Inc.
 ATTN: Ms Petra A Vorwig
 Phone: 202-478-7143 , E-Mail: petra.vorwig@ses.com
 Counsel: SATCOM LAW LLC
 Phone: 202-599-0975

Call Sign: E170089 File Number: SES-LIC-20170407-00374
 Licensee: SES Americom, Inc.
 ATTN: Ms Petra A Vorwig
 Phone: 202-478-7143 , E-Mail: petra.vorwig@ses.com
 Counsel: SES AMERICOM, INC.
 Phone: 609-987-4327

- (7) The Communications Act of 1934 Section 333 - prohibits willful or malicious interference (jamming and electronic attacks) with the radio communications of any station licensed or authorized under the Act or operated by the U.S. Government.