

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

EXPERIMENTAL

(Nature of Service)

WP9XHS

(Call Sign)

XC FX MO

(Class of Station)

1751-EX-ST-2019

(File Number)

NAME Northrop Grumman Systems Corporation

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:

This STA is required in support of the Pegasus Ionospheric Connection Explorer (ICON) Mission, NASA Contract NNK10LB01B. Authorization is sought for testing on Oct. 1, Oct. 3-4, and for

Station Locations

- (1) MOBILE: Maximum altitude 39,000 feet, within 410 km, centered around NL 28-27-46;
WL 80-39-11
- (2) Kennedy Space Center (BREVARD), FL - NL 28-27-36; WL 80-34-12
- (3) MOBILE: Spacecraft, see attachment, within 5700 km, centered around NL 29-00-00;
WL 78-18-00

Frequency Information

MOBILE: Maximum altitude 39,000 feet, within 410 km, centered around NL 28-27-46; WL 80-39-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2269.5 MHz	MO	75K0F1D	0.48 W (ERP)	
2288.5 MHz	MO	315KF1D	0.48 W (ERP)	

This authorization effective September 30, 2019 and
will expire 3:00 A.M. EST January 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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Special Conditions:

- (1) All Northrop Grumman Systems Corporation operations, granted on an experimental basis, shall conduct on an unprotected, non-interference basis to authorized AF stations.
- (2) All operations shall be limited to ground testing and launching of the Pegasus Ionospheric Connection Explorer (ICON) mission
- (3) Northrop Grumman Systems Corporation shall be aware that future access for non-federal launches in the 2200-2290 MHz will be considered on a case-by-case basis and Northrop Grumman Systems Corporation shall have no expectations that future launches will be approved for use of this band.

Special Conditions:

- (4) As soon as possible, but no later than 30 business days prior to the planned launch, Northrop Grumman Systems Corporation is required to provide, as a minimum, launch date/time/window and planned first- and second-stage trajectory, transmission frequencies with associated duration/cut-off time to Jimmy Nguyen (jimmy.nguyen@us.af.mil, AFSMO), Felipe Arroyo (felipe.arroyo-1@nasa.gov, NASA/WFF), Scott Galbraith (vincent.s.galbraith@nasa.gov, NASA/GSFC), Kevin Vipavetz (kevin.g.vipavetz@nasa.gov, NASA/LaRC), NOAA Satellite Operations Control Center (philip.l.whaley@noaa.gov) and Cathy Sham (catherine.c.sham@nasa.gov). In the event of last-minute changes, 24-hour notice is required.
- (5) Prior to transmitting (ground testing and launching) at CCAFS, Florida, Northrop Grumman Systems Corporation shall coordinate and schedule their operations with Range Scheduling, COMM: (321-853-5941, email: 1ropschd@us.af.mil) and provide a copy of FCC license to the 45th Space Wing Spectrum Management Office, (321)-853-8408, email: 45sw.erfmo@us.af.mil with Cc'ing DoD EAFC (321)-853-8426 at 45sw.dodeafc@us.af.mil
- (6) Prior to start and at conclusion of test 1 and test 2, Northrop Grumman Systems Corporation requires to notify DoD EAFC telephonically (321) 853-8426 or by email at 45sw.dodeafc@us.af.mil