

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

EXPERIMENTAL

(Nature of Service)

WH2XSA

(Call Sign)

XT MO

(Class of Station)

0118-EX-ST-2017

(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:

Testing in support of internal research and development related to new transmitter, receiver and Active Electronically Scanned Array (AESA) radar antenna technology.

Station Locations

- (1) MOBILE: Duke Field AFS: max altitude 31,000 feet MSL, within 50 km, centered around NL 30-38-49; WL 86-31-17
- (2) MOBILE: Southeastern U.S.: Max Altitude 31,000 feet MSL

Frequency Information

MOBILE: Duke Field AFS: max altitude 31,000 feet MSL, within 50 km, centered around NL 30-38-49; WL 86-31-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.3-10.5 GHz	MO		3.16 MW (ERP)	
		240MQ3N		
		20M0Q3N		
		640MQ3N		

This authorization effective April 15, 2017 and
will expire 3:00 A.M. EST October 15, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Southeastern U.S.: Max Altitude 31,000 feet MSL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.3-10.5 GHz	MO	240MQ3N 20M0Q3N 640MQ3N	3.16 MW (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) When operating within line-of-sight (350 km radius at an altitude of 31,000 FT AGL) of NASA Goddard Spaceflight Center (GSFC) [390114N, 0764939W] or NASA-Wallops Flight Facility (WFF) [375602N, 0752815W], coordination of operations is required at least 3 days in advance with:
 - a. NASA Glenn Space Flight Center Spectrum Manager
Scott Galbraith at 301.286.5089
VINCENT.S.GALBRAITH@NASA.GOV
 - b. NASA Wallops Flight Facility Spectrum Manager
Felipe Arroyo at 757.824.1623
FELIPE.ARROYO-1@NASA.GOV.
- (4) Northrop Grumman must not operate within 322 km of the geographic coordinates 391109N 0764205W to avoid interference to critical Air Force operations.

Special Conditions:

- (5) For the Duke Field AFS location: The Northrop Grumman Stop buzzer, Kevin Nekula, must contact the DoD Gulf Area Frequency Coordinator (GAFC) prior to aircraft being in the vicinity of Duke Field.

DOD GULF AFC

96 CS/SCXF

201 W Eglin Blvd, Suite 256

Eglin AFB, FL 32542-6829

Organization Contact: CML 850-883-7535 or DSN: 875-7535

FAX: CML 850-882-3523 or DSN 872-3523

STE: CML 850-882-1244 or DSN 872-1244, NOTE: Also secure FAX

CELL: (After hours) 850-496-1867

NIPR ORG BOX: dodgaafc@eglin.af.mil

SIPRNET: (USER ID)@afmc.af.smil.mil

SXXI: EGLIN1

PHONE PHONE (CML) NIPRNET

Mr. Ronald Higdon (GAFC) 875-5982 850-883-5982 ronald.higdon@us.af.mil

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