

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

EXPERIMENTAL

(Nature of Service)

WO9XQC

(Call Sign)

XT MO

(Class of Station)

0911-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:

The purpose of the operation is to investigate performance of a modular, tile-based antenna array for radar operations during flight.

Station Locations

- (1) MOBILE: Georgetown, DE: max altitude 17,500 MSL, within 370 km, centered around NL 38-41-20; WL 75-21-38

Frequency Information

MOBILE: Georgetown, DE: max altitude 17,500 MSL, within 370 km, centered around NL 38-41-20; WL 75-21-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	10K0P0N 1M00P0N 1M20Q1N 10M0Q3N	746 kW (ERP)	
3100-3550 MHz	MO	10K0P0N 1M00P0N 1M20Q1N	29700 kW (ERP)	

This authorization effective June 04, 2019 and
will expire 3:00 A.M. EST December 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



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Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (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) Northrop Grumman Systems Corporation must not operate in the 420 - 450 MHz band due to interference to numerous assignments across multiple agencies in the requested area.
- (5) In the requested 2950 - 3650 MHz band, the band limits must be adjusted to be 3100 - 3550 MHz in order to avoid interference to NEXRAD operations and because this location falls within the 3550 - 3650 MHz Exclusion Zone defined in Fast Track Report.
- (6) In accordance with Footnote US342 of the Table of Allocations, Northrop Grumman Systems Corporation must not interfere with the 3260 - 3267 MHz, 3332 - 3339 MHz, and the 3345.5 - 3352.5 MHz bands.
- (7) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 190 miles of the contours of the testing area: Location & Monitoring Service licensees (902-928 MHz)
- (8) Northrop Grumman shall notify the registered users in the proposed geographic area prior to operation in 3100-3550 MHz band