

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

EXPERIMENTAL

(Nature of Service)

WL9XKN

(Call Sign)

XT FX

(Class of Station)

1775-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:

Evaluation of Broadside-to-Endfire Array (AESA) performance.

Station Locations

(1) Hanover (ANNE ARUNDEL), MD - NL 39-11-05; WL 76-42-21

Frequency Information

Hanover (ANNE ARUNDEL), MD - NL 39-11-05; WL 76-42-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1270 MHz	FX	5M00N0N	6.1 W (ERP)	

Special Conditions:

- (1) The EIRP must be less than 10 Watts.
- (2) The test is an internal R&D development to evaluate power control and beam shape confirmation for Broadside-to-Endfire array (AESA), and the future platform must not be mobile airborne platform for the 1250-1340 MHz band.
- (3) The outdoor (free space) test is to have all elements powered on and the resultant beam shape confirmed, and evaluate the capability of the power system and controls.

This authorization effective January 02, 2018 and
will expire 3:00 A.M. EST April 01, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) The direction of transmission is 120 deg reference to true north.
- (5) Per discussions with the FAA, Northrop Grumman Systems Corporation may operate only on the discrete frequency of 1270 MHz with a 5 MHz bandwidth and maximum ERP of 6.1 Watts.