

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

EXPERIMENTAL

(Nature of Service)

WK9XNS

(Call Sign)

XT FX MO

(Class of Station)

1672-EX-ST-2016

(File Number)

NAME The Boeing Company

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 of millimeter wave (W-Band) for detection of Foreign Object Debris (FOD).

Station Locations

- (1) Mesa (MARICOPA), AZ - NL 33-28-14; WL 111-43-24
- (2) Tukwila (KING), WA - NL 47-31-24; WL 122-18-12
- (3) MOBILE: within compound of buildings on Boeing Property, Everett, WA, within 5 km, centered around NL 47-55-29; WL 122-16-18

Frequency Information

Mesa (MARICOPA), AZ - NL 33-28-14; WL 111-43-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
75-85 GHz	FX	NON	10 W (ERP)	

This authorization effective December 15, 2016 and
will expire 3:00 A.M. EST March 02, 2017

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COMMUNICATIONS
COMMISSION**



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Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) In each proposed venue, Boeing must coordinate with the existing 71-76 GHz and 81-86 GHz users prior to conducting the experimental operations.
- (4) Boeing must notch 75 MHz +/- 1K3 at the Tukwila, WA location to protect Air Force operations.
- (5) Boeing should be aware FOD systems are for experimental purposes only and cannot be used to replace any existing FAA mandated FOD requirement. Also, developers must know that some portions of the proposed band may not be appropriate for an operational system.