

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WE9XDN

(Call Sign)

0234-EX-ST-2010

(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:

The test is to measure aircraft shielding effectiveness over the frequency range defined for the HIRF environment.

Station Locations

(1) Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency Information

Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-72 MHz	FX	NON	10 uW (ERP)	
76-168 MHz	FX	NON	10 uW (ERP)	
169-172 MHz	FX	NON	10 uW (ERP)	

This authorization effective June 02, 2010 and
will expire 3:00 A.M. EST December 02, 2010

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
173.5-608 MHz	FX	N0N	10 uW (ERP)	
614-1164 MHz	FX	N0N	10 uW (ERP)	
1189-1215 MHz	FX	N0N	10 uW (ERP)	
1240-1367 MHz	FX	N0N	10 uW (ERP)	
1394-1400 MHz	FX	N0N	10 uW (ERP)	
1427-1559 MHz	FX	N0N	10 uW (ERP)	
1610-1660.5 MHz	FX	N0N	10 uW (ERP)	
1668.4-1820 MHz	FX	N0N	10 uW (ERP)	
1830-2690 MHz	FX	N0N	10 uW (ERP)	
2700-2705 MHz	FX	N0N	10 uW (ERP)	

Frequency Information

Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2715-2770 MHz	FX	N0N	10 uW (ERP)	
2780-3650 MHz	FX	N0N	10 uW (ERP)	
3700-4700 MHz	FX	N0N	10 uW (ERP)	
4730-4760 MHz	FX	N0N	10 uW (ERP)	
4790-4990 MHz	FX	N0N	10 uW (ERP)	
5000-7512 MHz	FX	N0N	10 uW (ERP)	
7538-7655 MHz	FX	N0N	10 uW (ERP)	
7675-7752 MHz	FX	N0N	10 uW (ERP)	
7778-7857 MHz	FX	N0N	10 uW (ERP)	
7883-8165 MHz	FX	N0N	10 uW (ERP)	

Frequency Information

Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8185-8272 MHz	FX	N0N	10 uW (ERP)	
8298-10600 MHz	FX	N0N	10 uW (ERP)	
10700-15350 MHz	FX	N0N	10 uW (ERP)	
15400-18000 MHz	FX	N0N	10 uW (ERP)	

Special Conditions:

- (1) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (2) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (3) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (5) 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.
- (6) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (7) Assignment in frequency band 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Northwest Coordinator, Seattle, WA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Northwest Coordinator, Seattle, WA, as necessary to ensure compatibility with existing uses.
- (8) Operation is NOT permitted using the frequency 1559-1610 MHz and 10600-10680 MHz passive band to avoid potential harmful interference to government stations.

Special Conditions:

- (9) Operation is NOT permitted to use the following frequencies to avoid transmissions which will cause potential harmful interference to government operations at the following locations:
- | | | | | |
|----------------|-----------|----|----------------------|---------------------|
| - M168.325000 | 11K00F3E | WA | MONROE SUBSTATION | 475354N
1215325W |
| - M168.325000 | 11K00F3E | WA | SNOHOMISH SUBSTATION | 475525N
1220607W |
| - M172.500000 | 11K00F3E | WA | MONROE SUBSTATION | 475354N
1215325W |
| - M172.500000 | 11K00F3E | WA | SNOHOMISH SUBSTATION | 475525N
1220607W |
| - M172.550000 | 11K00F3E | WA | SNOHOMISH SUBSTATION | 475525N
1220607W |
| - M172.700000 | 11K00F3E | WA | SNOHOMISH SUBSTATION | 475525N
1220607W |
| - M1825.000000 | 10M00F9WJ | WA | MURRAY SUBSTATION | 480917N
1220504W |
| - M4715.000000 | 30M00D7W | WA | BLYN | 480057N
1225539W |
| - M4775.000000 | 30M00D7W | WA | BLYN | 480057N
1225539W |
| - M7525.000000 | 25M00F9W | WA | MONROE SUBSTATION | 475354N
1215325W |
| - M7665.000000 | 20M00F9W | WA | DEVILS MOUNTAIN | 482154N
1221605W |
| - M7765.000000 | 25M00F9W | WA | MONROE SUBSTATION | 475354N
1215325W |
| - M7870.000000 | 25M00F9W | WA | KING LAKE | 474856N
1215525W |
| - M8175.000000 | 20M00F9W | WA | DEVILS MOUNTAIN | 482154N
1221605W |
| - M8285.000000 | 25M00F9W | WA | KING LAKE | 474856N
1215525W |
- (10) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with the Area Frequency Coordinator (AFC), who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with AFC, as necessary to ensure compatibility with existing uses.
- (11) The designated point-of-contact to terminate the transmissions if interference occurs is John Kuras (425) 263-7781.
- (12) Licensee must get consent from EBS/BRS and AWS licensees in the immediate geographic area prior to conducting the test.
- (13) If this testing is continue beyond 12/01/2010, Boeing must apply for long term experimental license.