

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

EXPERIMENTAL

(Nature of Service)

WK9XBJ

(Call Sign)

XT MO

(Class of Station)

0888-EX-ST-2016

(File Number)

NAME Microsoft 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:

Microsoft will test sensors using white-space technologies operating in the specified VHF and UHF frequency bands to determine their suitability for precision agriculture applications.

Station Locations

- (1) MOBILE: The Microsoft Campus N 47 38 22, W 122 7 44, within 2 km, centered around NL 47-38-22; WL 122-07-44
- (2) MOBILE: Carnation WA Farm near N 47 41 14 W 121 56 23, within 5 km, centered around NL 47-41-14; WL 121-56-23
- (3) MOBILE: Essex NY Farm near N 44 18 42 W 73 22 24, within 5 km, centered around NL 44-18-42; WL 73-22-24

Frequency Information

MOBILE: The Microsoft Campus N 47 38 22, W 122 7 44, within 2 km, centered around NL 47-38-22; WL 122-07-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W	63 mW (ERP)	

This authorization effective July 18, 2016 and
will expire 3:00 A.M. EST January 19, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
76-88 MHz	MO	100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	

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54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
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54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	

Special Conditions:

- (1) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (2) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) No operation permitted in 608-614 MHz.