

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL
(Nature of Service)

WK2XOY
(Call Sign)

XC FX MO
(Class of Station)

0822-EX-CN-2019
(File Number)

NAME The Boeing Company

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(hb) of the Commission's Rules

Station Locations

- (1) Ridley Park (DELAWARE), PA - NL 39-51-36; WL 75-19-15; MOBILE: Within compounds of Boeing facility, Ridley Park, PA, within 5 km, centered around NL 39-51-36; WL 75-19-15
- (2) Middletown (NEW CASTLE), DE - NL 39-31-13; WL 75-43-17; MOBILE: Within compounds of Summit facility, Middletown, DE, within 5 km, centered around NL 39-31-13; WL 75-43-17

Frequency Information

Ridley Park (DELAWARE), PA - NL 39-51-36; WL 75-19-15; MOBILE: Within compounds of Boeing facility, Ridley Park, PA, w

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
225.5 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
234.625 MHz	MO	5K00A3E 8K33A3E 12K5A3E	15 W (ERP)	

This authorization effective February 04, 2020 and
will expire 3:00 A.M. EST February 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
234.625 MHz	MO	25K0A3E	15 W (ERP)	
242.275 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
248.625 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
253.475 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
262 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
271.725 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	

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340 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
343.325 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
350.05 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
399.995 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
403 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
424.8 MHz	MO	5K00F3E 8K33F3E 12K5F3E	15 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
424.8 MHz	MO	25K0F3E	15 W (ERP)	
430.25 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
435.7 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
441.15 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
446.6 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
452.05 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
457.5 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
462.95 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
468.4 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
473.85 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
479.3 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
484.75 MHz	MO	5K00F3E 8K33F3E 12K5F3E	15 W (ERP)	

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484.75 MHz	MO	25K0F3E	15 W (ERP)	
490.2 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
495.65 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	

Middletown (NEW CASTLE), DE - NL 39-31-13; WL 75-43-17; MOBILE: Within compounds of Summit facility, Middletown, DE

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
225.5 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
234.625 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
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242.275 MHz	MO	8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
248.625 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
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271.725 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
302.35 MHz	MO	5K00A3E 8K33A3E 12K5A3E	15 W (ERP)	

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302.35 MHz	MO	25K0A3E	15 W (ERP)	
340 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
343.325 MHz	MO	5K00A3E 8K33A3E 12K5A3E 25K0A3E	15 W (ERP)	
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490.2 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	
495.65 MHz	MO	5K00F3E 8K33F3E 12K5F3E 25K0F3E	15 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) The applicant must notify and coordinate with public safety licensees within 50 km of testing sites that operate on 462.95 MHz.
- (4) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in the frequency bands centered at 452.05 MHz, 473.85 MHz, 479.3 MHz, 484.75 MHz, 490.2 MHz, and 495.65 MHz.
- (5) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (6) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (7) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.

Special Conditions:

- (8) Operation is NOT PERMITTED using the following frequencies 263.6 MHz, 305.4 MHz, 321.7 MHz, 366.5 MHz and 383.1 MHz.
- (9) Operation is NOT PERMITTED using the frequency band 406.1-420 MHz.
- (10) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Army, contract number W58RGZ-17-C-0059. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (11) The designated point-of-contact to terminate the system if interference occurs is Neil Blaho 610-591-6478/ Daniel McNeil 714-642-7485.