

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

EXPERIMENTAL
(Nature of Service)

WH2XWN
(Call Sign)

XD FX MO
(Class of Station)

0198-EX-CM-2021
(File Number)

NAME Rockwell Collins, Inc.

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(j) of the Commission's Rules

Station Locations

- (1) Cedar Rapids, IA - NL 42-00-43; WL 91-38-47; MOBILE: Cedar Rapids, IA, within 38 km, centered around NL 42-00-43; WL 91-38-47
- (2) MOBILE: Iowa City, IA, within 20 km, centered around NL 41-38-18; WL 91-32-26

Frequency Information

Cedar Rapids, IA - NL 42-00-43; WL 91-38-47; MOBILE: Cedar Rapids, IA, within 38 km, centered around NL 42-00-43; WL 9

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.6 MHz	MO	50K0G1D 25K0F2D 25K0F3E 25K0A2D 25K0A3E 25K0F2E	50 W (ERP)	
30-74.6 MHz	FX	50K0G1D 25K0F2D 25K0F3E 25K0A2D	50 W (ERP)	

This authorization effective October 01, 2021 and
will expire 3:00 A.M. EST August 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Cedar Rapids, IA - NL 42-00-43; WL 91-38-47; MOBILE: Cedar Rapids, IA, within 38 km, centered around NL 42-00-43; WL 9

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.6 MHz	FX	25K0A3E 25K0F2E	50 W (ERP)	
420-450 MHz	MO	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D 25K0F2D 25K0F3E 25K0A2D 25K0A3E	50 W (ERP)	
420-450 MHz	FX	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D 25K0F2D 25K0F3E 25K0A2D 25K0A3E	50 W (ERP)	
1370-1390 MHz	FX	1M25G1D 50K0G1D 1M20G1D 4M00G1D 10M0G1D 19M9G1D	50 W (ERP)	

Frequency Information

Cedar Rapids, IA - NL 42-00-43; WL 91-38-47; MOBILE: Cedar Rapids, IA, within 38 km, centered around NL 42-00-43; WL 9

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1370-1390 MHz	MO	1M25G1D 50K0G1D 1M20G1D 4M00G1D 10M0G1D 19M9G1D	50 W (ERP)	
1390-1395 MHz	MO	1M20G1D 1M25G1D	50 W (ERP)	
1390-1395 MHz	FX	1M20G1D 1M25G1D	50 W (ERP)	
1755-1850 MHz	FX	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D	50 W (ERP)	
1755-1850 MHz	MO	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D	50 W (ERP)	

Frequency Information

MOBILE: Iowa City, IA, within 20 km, centered around NL 41-38-18; WL 91-32-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-449.75 MHz	MO	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D 25K0F2D 25K0F3E 25K0A2D 25K0A3E	50 W (ERP)	0.0001 %

Special Conditions:

- (1) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (2) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (6) Prior to commencing any operations in the frequencies below, Rockwell Collins, Inc. must obtain consent from the following within 50 miles of the contours of the testing area:
 - Paging Service licensees in 35 MHz
 - Paging Service licensees in 43 MHz
 - 1390-92 MHz Band Licensees
 - 1392-1395 MHz/1432-1435 MHz Band licensees
- (7) Coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in the frequency range from 54 MHz to 72 MHz.
- (8) All operations shall comply with the limits of unwanted emission recommendations specified in Resolution 750 (Rev.WRC-19).