

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WF2XMP

(Call Sign)

0059-EX-ML-2011

(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(i) of the Commission's Rules

Station Locations

- (1) Cedar Rapids (LINN), IA - NL 42-00-38; WL 91-38-45
- (2) Oxford Junction (CLINTON), IA - NL 41-57-41; WL 90-53-37
- (3) Richardson (COLLIN), TX - NL 32-59-43; WL 96-39-37
- (4) Las Cruces (DONA ANA), NM - NL 32-16-44; WL 106-45-14
- (5) Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08
- (6) Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08
- (7) Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency Information

Cedar Rapids (LINN), IA - NL 42-00-38; WL 91-38-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2398-3171 kHz	FX	24K0J1D	25 kW (ERP)	
3260-4050 kHz	FX	24K0J1D	25 kW (ERP)	
4576-4611 kHz	FX	24K0J1D	25 kW (ERP)	

This authorization effective June 15, 2011 and
will expire 3:00 A.M. EST June 15, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Cedar Rapids (LINN), IA - NL 42-00-38; WL 91-38-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4636-4950 kHz	FX	24K0J1D	25 kW (ERP)	
5100-5315 kHz	FX	24K0J1D	25 kW (ERP)	
5760-5960 kHz	FX	24K0J1D	25 kW (ERP)	
6060-6160 kHz	FX	24K0J1D	25 kW (ERP)	
6770-6970 kHz	FX	24K0J1D	25 kW (ERP)	
7410-7483 kHz	FX	24K0J1D	25 kW (ERP)	
7650-7698 kHz	FX	24K0J1D	25 kW (ERP)	
7990-8060 kHz	FX	24K0J1D	25 kW (ERP)	
9050-9350 kHz	FX	24K0J1D	25 kW (ERP)	
10200-10400 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Cedar Rapids (LINN), IA - NL 42-00-38; WL 91-38-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10600-10800 kHz	FX	24K0J1D	25 kW (ERP)	
11550-12090 kHz	FX	24K0J1D	25 kW (ERP)	
13850-14550 kHz	FX	24K0J1D	25 kW (ERP)	
15760-15860 kHz	FX	24K0J1D	25 kW (ERP)	
15960-16060 kHz	FX	24K0J1D	25 kW (ERP)	
16160-17450 kHz	FX	24K0J1D	25 kW (ERP)	
18040-18610 kHz	FX	24K0J1D	25 kW (ERP)	
19460-20460 kHz	FX	24K0J1D	25 kW (ERP)	
20960-21860 kHz	FX	24K0J1D	25 kW (ERP)	
22860-23160 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Cedar Rapids (LINN), IA - NL 42-00-38; WL 91-38-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
23460-24460 kHz	FX	24K0J1D	25 kW (ERP)	
25230-26490 kHz	FX	24K0J1D	25 kW (ERP)	
26910-27440 kHz	FX	24K0J1D	25 kW (ERP)	
27990-29720 kHz	FX	24K0J1D	25 kW (ERP)	

Oxford Junction (CLINTON), IA - NL 41-57-41; WL 90-53-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2398-3171 kHz	FX	24K0J1D	25 kW (ERP)	
3260-4050 kHz	FX	24K0J1D	25 kW (ERP)	
4576-4611 kHz	FX	24K0J1D	25 kW (ERP)	
4636-4950 kHz	FX	24K0J1D	25 kW (ERP)	
5100-5315 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Oxford Junction (CLINTON), IA - NL 41-57-41; WL 90-53-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5760-5960 kHz	FX	24K0J1D	25 kW (ERP)	
6060-6160 kHz	FX	24K0J1D	25 kW (ERP)	
6770-6970 kHz	FX	24K0J1D	25 kW (ERP)	
7410-7483 kHz	FX	24K0J1D	25 kW (ERP)	
7650-7698 kHz	FX	24K0J1D	25 kW (ERP)	
7990-8060 kHz	FX	24K0J1D	25 kW (ERP)	
9050-9350 kHz	FX	24K0J1D	25 kW (ERP)	
10200-10400 kHz	FX	24K0J1D	25 kW (ERP)	
10600-10800 kHz	FX	24K0J1D	25 kW (ERP)	
11550-12090 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Oxford Junction (CLINTON), IA - NL 41-57-41; WL 90-53-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13850-14550 kHz	FX	24K0J1D	25 kW (ERP)	
15760-15860 kHz	FX	24K0J1D	25 kW (ERP)	
15960-16060 kHz	FX	24K0J1D	25 kW (ERP)	
16160-17450 kHz	FX	24K0J1D	25 kW (ERP)	
18040-18610 kHz	FX	24K0J1D	25 kW (ERP)	
19460-20460 kHz	FX	24K0J1D	25 kW (ERP)	
20960-21860 kHz	FX	24K0J1D	25 kW (ERP)	
22860-23160 kHz	FX	24K0J1D	25 kW (ERP)	
23460-24460 kHz	FX	24K0J1D	25 kW (ERP)	
25230-26490 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Oxford Junction (CLINTON), IA - NL 41-57-41; WL 90-53-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
26910-27440 kHz	FX	24K0J1D	25 kW (ERP)	
27990-29720 kHz	FX	24K0J1D	25 kW (ERP)	

Richardson (COLLIN), TX - NL 32-59-43; WL 96-39-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2398-3171 kHz	FX	24K0J1D	25 kW (ERP)	
3260-4050 kHz	FX	24K0J1D	25 kW (ERP)	
4576-4611 kHz	FX	24K0J1D	25 kW (ERP)	
4636-4950 kHz	FX	24K0J1D	25 kW (ERP)	
5100-5315 kHz	FX	24K0J1D	25 kW (ERP)	
5760-5960 kHz	FX	24K0J1D	25 kW (ERP)	
6060-6160 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Richardson (COLLIN), TX - NL 32-59-43; WL 96-39-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6770-6970 kHz	FX	24K0J1D	25 kW (ERP)	
7410-7483 kHz	FX	24K0J1D	25 kW (ERP)	
7650-7698 kHz	FX	24K0J1D	25 kW (ERP)	
7990-8060 kHz	FX	24K0J1D	25 kW (ERP)	
9050-9350 kHz	FX	24K0J1D	25 kW (ERP)	
10200-10400 kHz	FX	24K0J1D	25 kW (ERP)	
10600-10800 kHz	FX	24K0J1D	25 kW (ERP)	
11550-12090 kHz	FX	24K0J1D	25 kW (ERP)	
13850-14550 kHz	FX	24K0J1D	25 kW (ERP)	
15760-15860 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Richardson (COLLIN), TX - NL 32-59-43; WL 96-39-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15960-16060 kHz	FX	24K0J1D	25 kW (ERP)	
16160-17450 kHz	FX	24K0J1D	25 kW (ERP)	
18040-18610 kHz	FX	24K0J1D	25 kW (ERP)	
19460-20460 kHz	FX	24K0J1D	25 kW (ERP)	
20960-21860 kHz	FX	24K0J1D	25 kW (ERP)	
22860-23160 kHz	FX	24K0J1D	25 kW (ERP)	
23460-24460 kHz	FX	24K0J1D	25 kW (ERP)	
25230-26490 kHz	FX	24K0J1D	25 kW (ERP)	
26910-27440 kHz	FX	24K0J1D	25 kW (ERP)	
27990-29720 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Las Cruces (DONA ANA), NM - NL 32-16-44; WL 106-45-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2398-3171 kHz	FX	24K0J1D	25 kW (ERP)	
3260-4050 kHz	FX	24K0J1D	25 kW (ERP)	
4576-4611 kHz	FX	24K0J1D	25 kW (ERP)	
4636-4950 kHz	FX	24K0J1D	25 kW (ERP)	
5100-5315 kHz	FX	24K0J1D	25 kW (ERP)	
5760-5960 kHz	FX	24K0J1D	25 kW (ERP)	
6060-6160 kHz	FX	24K0J1D	25 kW (ERP)	
6770-6970 kHz	FX	24K0J1D	25 kW (ERP)	
7410-7483 kHz	FX	24K0J1D	25 kW (ERP)	
7650-7698 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Las Cruces (DONA ANA), NM - NL 32-16-44; WL 106-45-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7990-8060 kHz	FX	24K0J1D	25 kW (ERP)	
9050-9350 kHz	FX	24K0J1D	25 kW (ERP)	
10200-10400 kHz	FX	24K0J1D	25 kW (ERP)	
10600-10800 kHz	FX	24K0J1D	25 kW (ERP)	
11550-12090 kHz	FX	24K0J1D	25 kW (ERP)	
13850-14550 kHz	FX	24K0J1D	25 kW (ERP)	
15760-15860 kHz	FX	24K0J1D	25 kW (ERP)	
15960-16060 kHz	FX	24K0J1D	25 kW (ERP)	
16160-17450 kHz	FX	24K0J1D	25 kW (ERP)	
18040-18610 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Las Cruces (DONA ANA), NM - NL 32-16-44; WL 106-45-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
19460-20460 kHz	FX	24K0J1D	25 kW (ERP)	
20960-21860 kHz	FX	24K0J1D	25 kW (ERP)	
22860-23160 kHz	FX	24K0J1D	25 kW (ERP)	
23460-24460 kHz	FX	24K0J1D	25 kW (ERP)	
25230-26490 kHz	FX	24K0J1D	25 kW (ERP)	
26910-27440 kHz	FX	24K0J1D	25 kW (ERP)	
27990-29720 kHz	FX	24K0J1D	25 kW (ERP)	

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3260-4050 kHz	FX	24K0J1D	25 kW (ERP)	
4576-4611 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4636-4950 kHz	FX	24K0J1D	25 kW (ERP)	
5100-5315 kHz	FX	24K0J1D	25 kW (ERP)	
5760-5960 kHz	FX	24K0J1D	25 kW (ERP)	
6060-6160 kHz	FX	24K0J1D	25 kW (ERP)	
6770-6970 kHz	FX	24K0J1D	25 kW (ERP)	
7410-7483 kHz	FX	24K0J1D	25 kW (ERP)	
7650-7698 kHz	FX	24K0J1D	25 kW (ERP)	
7990-8060 kHz	FX	24K0J1D	25 kW (ERP)	
9050-9350 kHz	FX	24K0J1D	25 kW (ERP)	
10200-10400 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10600-10800 kHz	FX	24K0J1D	25 kW (ERP)	
11550-12090 kHz	FX	24K0J1D	25 kW (ERP)	
13850-14550 kHz	FX	24K0J1D	25 kW (ERP)	
15760-15860 kHz	FX	24K0J1D	25 kW (ERP)	
15960-16060 kHz	FX	24K0J1D	25 kW (ERP)	
16160-17450 kHz	FX	24K0J1D	25 kW (ERP)	
18040-18610 kHz	FX	24K0J1D	25 kW (ERP)	
19460-20460 kHz	FX	24K0J1D	25 kW (ERP)	
20960-21860 kHz	FX	24K0J1D	25 kW (ERP)	
22860-23160 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
23460-24460 kHz	FX	24K0J1D	25 kW (ERP)	
25230-26490 kHz	FX	24K0J1D	25 kW (ERP)	
26910-27440 kHz	FX	24K0J1D	25 kW (ERP)	
27990-29720 kHz	FX	24K0J1D	25 kW (ERP)	

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3260-4050 kHz	FX	24K0J1D	25 kW (ERP)	
4576-4611 kHz	FX	24K0J1D	25 kW (ERP)	
4636-4950 kHz	FX	24K0J1D	25 kW (ERP)	
5100-5315 kHz	FX	24K0J1D	25 kW (ERP)	
5760-5960 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6060-6160 kHz	FX	24K0J1D	25 kW (ERP)	
6770-6970 kHz	FX	24K0J1D	25 kW (ERP)	
7410-7483 kHz	FX	24K0J1D	25 kW (ERP)	
7650-7698 kHz	FX	24K0J1D	25 kW (ERP)	
7990-8060 kHz	FX	24K0J1D	25 kW (ERP)	
9050-9350 kHz	FX	24K0J1D	25 kW (ERP)	
10200-10400 kHz	FX	24K0J1D	25 kW (ERP)	
10600-10800 kHz	FX	24K0J1D	25 kW (ERP)	
11550-12090 kHz	FX	24K0J1D	25 kW (ERP)	
13850-14550 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15760-15860 kHz	FX	24K0J1D	25 kW (ERP)	
15960-16060 kHz	FX	24K0J1D	25 kW (ERP)	
16160-17450 kHz	FX	24K0J1D	25 kW (ERP)	
18040-18610 kHz	FX	24K0J1D	25 kW (ERP)	
19460-20460 kHz	FX	24K0J1D	25 kW (ERP)	
20960-21860 kHz	FX	24K0J1D	25 kW (ERP)	
22860-23160 kHz	FX	24K0J1D	25 kW (ERP)	
23460-24460 kHz	FX	24K0J1D	25 kW (ERP)	
25230-26490 kHz	FX	24K0J1D	25 kW (ERP)	
26910-27440 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27990-29720 kHz	FX	24K0J1D	25 kW (ERP)	

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3260-4050 kHz	FX	24K0J1D	25 kW (ERP)	
4576-4611 kHz	FX	24K0J1D	25 kW (ERP)	
4636-4950 kHz	FX	24K0J1D	25 kW (ERP)	
5100-5315 kHz	FX	24K0J1D	25 kW (ERP)	
5760-5960 kHz	FX	24K0J1D	25 kW (ERP)	
6060-6160 kHz	FX	24K0J1D	25 kW (ERP)	
6770-6970 kHz	FX	24K0J1D	25 kW (ERP)	
7410-7483 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7650-7698 kHz	FX	24K0J1D	25 kW (ERP)	
7990-8060 kHz	FX	24K0J1D	25 kW (ERP)	
9050-9350 kHz	FX	24K0J1D	25 kW (ERP)	
10200-10400 kHz	FX	24K0J1D	25 kW (ERP)	
10600-10800 kHz	FX	24K0J1D	25 kW (ERP)	
11550-12090 kHz	FX	24K0J1D	25 kW (ERP)	
13850-14550 kHz	FX	24K0J1D	25 kW (ERP)	
15760-15860 kHz	FX	24K0J1D	25 kW (ERP)	
15960-16060 kHz	FX	24K0J1D	25 kW (ERP)	
16160-17450 kHz	FX	24K0J1D	25 kW (ERP)	

Frequency Information

Benson (COCHISE), AZ - NL 32-27-29; WL 110-09-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
18040-18610 kHz	FX	24K0J1D	25 kW (ERP)	
19460-20460 kHz	FX	24K0J1D	25 kW (ERP)	
20960-21860 kHz	FX	24K0J1D	25 kW (ERP)	
22860-23160 kHz	FX	24K0J1D	25 kW (ERP)	
23460-24460 kHz	FX	24K0J1D	25 kW (ERP)	
25230-26490 kHz	FX	24K0J1D	25 kW (ERP)	
26910-27440 kHz	FX	24K0J1D	25 kW (ERP)	
27990-29720 kHz	FX	24K0J1D	25 kW (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The following frequency band need to be NOTCHED: 25230-26490 KHz