

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WI2XYQ

(Call Sign)

0368-EX-CN-2017

(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 (LINN), IA - NL 42-01-55; WL 91-38-35
- (2) Melbourne (BREVARD), FL - NL 28-05-31; WL 80-38-05

Frequency Information

Cedar Rapids (LINN), IA - NL 42-01-55; WL 91-38-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.75-13.77 GHz	FX	960KG2B	128.8 kW (ERP)	6.0E-6 %
13.78-14.5 GHz	FX	960KG2B	128.8 kW (ERP)	6.0E-6 %

This authorization effective July 28, 2017 and
will expire 3:00 A.M. EST August 01, 2019

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Frequency Information

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13.78-14.5 GHz	FX	960KG2B	128.8 kW (ERP)	6.0E-6 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) License must comply with 47 C.F.R. 25.204, e(2), transmission to a geostationary space station in the 13.77-13.78 GHz band must not generate more than 71 dBW EIRP in any 6 MHz band. Automatic power control may be used to increase the EIRP density in a 6 MHz uplink band in this frequency range to compensate for rain fade, provided that the power flux-density at the space station does not exceed the value that would result when transmitting with an EIRP of 71 dBW [for GSO communications] or 51 dBW [for NGSO communication], as appropriate, in that 6 MHz band in clear-sky conditions.
- (5) License must comply with 47 C.F.R. 25.204(i), Within 125 km of the TDRSS sites identified in §25.222(d), transmissions in the 14.0-14.2 GHz (Earth-to-space) band shall not exceed an e.i.r.p. spectral density towards the horizon of 12.5 dBW/MHz, and shall not exceed an e.i.r.p. towards the horizon of 16.3 dBW.
- (6) No automatic renewal for operations in the 13750-14500 MHz band.
- (7) POINT-OF-COMMUNICATION: SES-2 @ 87° W.L. (S2826) and SES-10 @ 66.9° W.L. (S2950)
- (8) The following contact information is provided for purposes of addressing any interference issues that might arise and to terminate the operations, if needed:
Cedar Rapids, Iowa:
Mr. Michael Meholensky, Lead Engineer: +1 319 263 8222
Ms. Christina Conway, Engineering Manager: +1 319 295 9484
Mr. Thomas Campbell, Systems Engineer: +1 319 295 7180
Melbourne Florida:
Mr. Trevor Trinkaus, Lead Engineer: +1 321 953 1702
Mr. Jeffery Horton, Technical Project Manager: +1 321 308 2331
Ms. Angela Knudson, Engineering Manager: +1 321 674 5356
- (9) Operation is not permitted in the 13.77-13.78 GHz band.