

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WH2XUK

(Call Sign)

0040-EX-CR-2018

(File Number)

NAME S2 Corporation

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) MOBILE: Bozeman, MT:field and parking lot next to office, within 0.2 km, centered around NL 45-39-18; WL 111-03-03

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-608 MHz	MO	NON 16M0F0N	1.5 W (ERP)	2 %
614-834 MHz	MO	NON 16M0F0N	1.5 W (ERP)	2 %
851-894 MHz	MO	NON 16M0F0N	1.5 W (ERP)	2 %

This authorization effective February 01, 2018 and
will expire 3:00 A.M. EST February 01, 2020

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
896-960 MHz	MO	N0N 16M0F0N	1.5 W (ERP)	2 %
1626.5-1660 MHz	MO	N0N 16M0F0N	1.92 W (ERP)	2 %
1670-2000 MHz	MO	N0N 16M0F0N	1.93 W (ERP)	2 %
2000-2310 MHz	MO	N0N 16M0F0N	2.98 W (ERP)	2 %
2390-2655 MHz	MO	N0N 16M0F0N	2.98 W (ERP)	2 %
3000-3500 MHz	MO	N0N 16M0F0N	4.12 W (ERP)	2 %
3650-4200 MHz	MO	N0N 16M0F0N	5.4 W (ERP)	2 %
4400-4990 MHz	MO	N0N 16M0F0N	6.1 W (ERP)	2 %

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5250-5350 MHz	MO	N0N 16M0F0N	6.1 W (ERP)	2 %
5460-9000 MHz	MO	N0N 16M0F0N	6.1 W (ERP)	2 %
9.2-10.68 GHz	MO	N0N 16M0F0N	6.1 W (ERP)	2 %
10.7-13.25 GHz	MO	N0N 16M0F0N	9.66 W (ERP)	1 %
13.4-15.35 GHz	MO	N0N 16M0F0N	9.66 W (ERP)	2 %
16.25-20 GHz	MO	N0N 16M0F0N	9.66 W (ERP)	2 %
20-22.21 GHz	MO	N0N 16M0F0N	2.4 W (ERP)	2 %
22.5-23.6 GHz	MO	N0N 16M0F0N	1.22 W (ERP)	2 %

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24-26.5 GHz	MO	NON 16M0F0N	386 mW (ERP)	2 %
26.5-110 GHz	MO	NON	19 mW (ERP)	2 %

Special Conditions:

- (1) Operation requires consent of affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (3) 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.
- (4) 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.
- (5) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (6) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (7) The licensee must consult the ULS database to ensure that the proposed operation will not cause adverse effect to any existing registered stations in the 3650-3700 MHz band and notify registered users in the immediate geographic area.
- (8) S2 Corp must notify Paging and General Aviation Air Ground licensees in 454-455 and 459-460 MHz, serving the test area.
- (9) Licensee must get the consent of all 700 MHz Band licensees (698-788 MHz) within 40 km of the test area.
- (10) Licensee must notify the Commercial Air-Ground licensee, Gogo (849-851 MHz/894-896 MHz).
- (11) Licensee must notify Narrowband PCS licensees (901-902 MHz).
- (12) Licensee must notify the 1670-1675 MHz Band licensee.
- (13) Licensee must coordinate with the existing users prior to operation in 71-76 GHz, 81-86 GHz and 92-95 GHz bands.