

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

EXPERIMENTAL
(Nature of Service)

XC FX
(Class of Station)

WH2XOO
(Call Sign)

0777-EX-PL-2014
(File Number)

NAME Scientific Research 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(c) of the Commission's Rules

- Station Locations
- (1) Austell (COBB), GA - NL 33-50-50; WL 84-35-57
 - (2) Johnson City (BLANCO), TX - NL 30-18-17; WL 98-23-46
 - (3) Cantonment (ESCAMBIA), FL - NL 30-33-01; WL 87-18-13
 - (4) Dahlonaga (LUMPKIN), GA - NL 34-36-22; WL 84-03-02

Frequency Information

Austell (COBB), GA - NL 33-50-50; WL 84-35-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.526-4.574 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
4.55 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %

This authorization effective January 20, 2015 and
will expire 3:00 A.M. EST January 20, 2018

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

Austell (COBB), GA - NL 33-50-50; WL 84-35-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.876-4.924 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
4.9 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
5.276-5.324 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
5.3 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
5.796-5.844 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %

Frequency Information

Austell (COBB), GA - NL 33-50-50; WL 84-35-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.8 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
6.826-6.874 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
6.85 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
7.776-7.824 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
7.8 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
9.226-9.274 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D	70 W (ERP)	0.00001 %

Frequency Information

Austell (COBB), GA - NL 33-50-50; WL 84-35-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.226-9.274 MHz	FX	24K0D1D	70 W (ERP)	0.00001 %
9.25 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
10.576-10.624 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
10.6 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
12.126-12.174 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
12.15 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
13.476-13.524 MHz	FX	3K00D1D 3K00D1E 6K00D1D	70 W (ERP)	0.00001 %

Frequency Information

Austell (COBB), GA - NL 33-50-50; WL 84-35-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.476-13.524 MHz	FX	9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
13.5 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
14.676-14.724 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
14.7 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
15.876-15.924 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
15.9 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %

Frequency Information

Austell (COBB), GA - NL 33-50-50; WL 84-35-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
19.376-19.424 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
19.4 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
20.476-20.524 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %
20.5 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %
24.276-24.324 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	70 W (ERP)	0.00001 %

Frequency Information

Austell (COBB), GA - NL 33-50-50; WL 84-35-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.3 MHz	FX	48K0D1D	70 W (ERP)	0.00001 %

Johnson City (BLANCO), TX - NL 30-18-17; WL 98-23-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.526-4.574 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %
4.55 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
4.876-4.924 MHz	FX	3K00D1D 3K00D1E 6K00D1D 12K0D1D 18K0D1D 24K0D1D 9K00D1D	2.5 kW (ERP)	0.00001 %
4.9 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
5.276-5.324 MHz	FX	3K00D1D	2.5 kW (ERP)	0.00001 %

Frequency Information

Johnson City (BLANCO), TX - NL 30-18-17; WL 98-23-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.276-5.324 MHz	FX	3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %
5.3 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
5.796-5.844 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %
5.8 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
6.826-6.874 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %

Frequency Information

Johnson City (BLANCO), TX - NL 30-18-17; WL 98-23-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.85 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
7.776-7.824 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %
7.8 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
9.226-9.274 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	4 kW (ERP)	0.00001 %
9.25 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %
10.576-10.624 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D	4 kW (ERP)	0.00001 %

Frequency Information

Johnson City (BLANCO), TX - NL 30-18-17; WL 98-23-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.576-10.624 MHz	FX	24K0D1D	4 kW (ERP)	0.00001 %
10.6 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %
12.126-12.174 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	4 kW (ERP)	0.00001 %
12.15 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %
13.476-13.524 MHz	FX	3K00D1D 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D 3K00D1E	4 kW (ERP)	0.00001 %
13.5 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %
14.676-14.724 MHz	FX	3K00D1D 3K00D1E 6K00D1D	4 kW (ERP)	0.00001 %

Frequency Information

Johnson City (BLANCO), TX - NL 30-18-17; WL 98-23-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.676-14.724 MHz	FX	9K00D1D 12K0D1D 18K0D1D 24K0D1D	4 kW (ERP)	0.00001 %
14.7 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %
15.876-15.924 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	5 kW (ERP)	0.00001 %
15.9 MHz	FX	48K0D1D	5 kW (ERP)	0.00001 %
19.376-19.424 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	5 kW (ERP)	0.00001 %
19.4 MHz	FX	48K0D1D	5 kW (ERP)	0.00001 %

Frequency Information

Johnson City (BLANCO), TX - NL 30-18-17; WL 98-23-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.476-20.524 MHz	FX	3K00D1D 3K00D1E 6K00D1D 12K0D1D 9K00D1D 18K0D1D 24K0D1D	5 kW (ERP)	0.00001 %
20.5 MHz	FX	48K0D1D	5 kW (ERP)	0.00001 %
24.276-24.324 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	5 kW (ERP)	0.00001 %
24.3 MHz	FX	48K0D1D	5 kW (ERP)	0.00001 %

Cantonment (ESCAMBIA), FL - NL 30-33-01; WL 87-18-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.526-4.574 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D	250 W (ERP)	0.00001 %

Frequency Information

Cantonment (ESCAMBIA), FL - NL 30-33-01; WL 87-18-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.526-4.574 MHz	FX	18K0D1D 24K0D1D	250 W (ERP)	0.00001 %
4.55 MHz	FX	48K0D1D	250 W (ERP)	0.00001 %
4.876-4.924 MHz	FX	3K00D1D 3K00D1E 6K00D1D 12K0D1D 18K0D1D 24K0D1D 9K00D1D	250 W (ERP)	0.00001 %
4.9 MHz	FX	48K0D1D	250 W (ERP)	0.00001 %
5.276-5.324 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	250 W (ERP)	0.00001 %
5.3 MHz	FX	48K0D1D	250 W (ERP)	0.00001 %
5.796-5.844 MHz	FX	3K00D1D 3K00D1E	250 W (ERP)	0.00001 %

Frequency Information

Cantonment (ESCAMBIA), FL - NL 30-33-01; WL 87-18-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.796-5.844 MHz	FX	6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	250 W (ERP)	0.00001 %
5.8 MHz	FX	48K0D1D	250 W (ERP)	0.00001 %
6.826-6.874 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	250 W (ERP)	0.00001 %
6.85 MHz	FX	48K0D1D	250 W (ERP)	0.00001 %
7.776-7.824 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	250 W (ERP)	0.00001 %
7.8 MHz	FX	48K0D1D	250 W (ERP)	0.00001 %

Frequency Information

Cantonment (ESCAMBIA), FL - NL 30-33-01; WL 87-18-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.226-9.274 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	400 W (ERP)	0.00001 %
9.25 MHz	FX	48K0D1D	400 W (ERP)	0.00001 %
10.576-10.624 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	400 W (ERP)	0.00001 %
10.6 MHz	FX	48K0D1D	400 W (ERP)	0.00001 %
12.126-12.174 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	400 W (ERP)	0.00001 %

Frequency Information

Cantonment (ESCAMBIA), FL - NL 30-33-01; WL 87-18-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12.15 MHz	FX	48K0D1D	400 W (ERP)	0.00001 %
13.476-13.524 MHz	FX	3K00D1D 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D 3K00D1E	400 W (ERP)	0.00001 %
13.5 MHz	FX	48K0D1D	400 W (ERP)	0.00001 %
14.676-14.724 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	400 W (ERP)	0.00001 %
14.7 MHz	FX	48K0D1D	400 W (ERP)	0.00001 %
15.876-15.924 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D	600 W (ERP)	0.00001 %

Frequency Information

Cantonment (ESCAMBIA), FL - NL 30-33-01; WL 87-18-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.876-15.924 MHz	FX	24K0D1D	600 W (ERP)	0.00001 %
15.9 MHz	FX	48K0D1D	600 W (ERP)	0.00001 %
19.376-19.424 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	600 W (ERP)	0.00001 %
19.4 MHz	FX	48K0D1D	600 W (ERP)	0.00001 %
20.476-20.524 MHz	FX	3K00D1D 3K00D1E 6K00D1D 12K0D1D 9K00D1D 18K0D1D 24K0D1D	600 W (ERP)	0.00001 %
20.5 MHz	FX	48K0D1D	600 W (ERP)	0.00001 %
24.276-24.324 MHz	FX	3K00D1D 3K00D1E 6K00D1D	600 W (ERP)	0.00001 %

Frequency Information

Cantonment (ESCAMBIA), FL - NL 30-33-01; WL 87-18-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.276-24.324 MHz	FX	9K00D1D 12K0D1D 18K0D1D 24K0D1D	600 W (ERP)	0.00001 %
24.3 MHz	FX	48K0D1D	600 W (ERP)	0.00001 %

Dahlonaga (LUMPKIN), GA - NL 34-36-22; WL 84-03-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.526-4.574 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %
4.55 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
4.876-4.924 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D	2.5 kW (ERP)	0.00001 %

Frequency Information

Dahlonaga (LUMPKIN), GA - NL 34-36-22; WL 84-03-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.876-4.924 MHz	FX	24K0D1D	2.5 kW (ERP)	0.00001 %
4.9 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
5.276-5.324 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %
5.3 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
5.796-5.844 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %
5.8 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
6.826-6.874 MHz	FX	3K00D1D 3K00D1E 6K00D1D	2.5 kW (ERP)	0.00001 %

Frequency Information

Dahlonaga (LUMPKIN), GA - NL 34-36-22; WL 84-03-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.826-6.874 MHz	FX	9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %
6.85 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
7.776-7.824 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	2.5 kW (ERP)	0.00001 %
7.8 MHz	FX	48K0D1D	2.5 kW (ERP)	0.00001 %
9.226-9.274 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	4 kW (ERP)	0.00001 %
9.25 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %

Frequency Information

Dahlonaga (LUMPKIN), GA - NL 34-36-22; WL 84-03-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.576-10.624 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	4 kW (ERP)	0.00001 %
10.6 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %
12.126-12.174 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	4 kW (ERP)	0.00001 %
12.15 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %
13.476-13.524 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	4 kW (ERP)	0.00001 %

Frequency Information

Dahlonaga (LUMPKIN), GA - NL 34-36-22; WL 84-03-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.5 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %
14.676-14.724 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	4 kW (ERP)	0.00001 %
14.7 MHz	FX	48K0D1D	4 kW (ERP)	0.00001 %
15.876-15.924 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	5 kW (ERP)	0.00001 %
15.9 MHz	FX	48K0D1D	5 kW (ERP)	0.00001 %
19.376-19.424 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D	5 kW (ERP)	0.00001 %

Frequency Information

Dahlonaga (LUMPKIN), GA - NL 34-36-22; WL 84-03-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
19.376-19.424 MHz	FX	24K0D1D	5 kW (ERP)	0.00001 %
19.4 MHz	FX	48K0D1D	5 kW (ERP)	0.00001 %
20.476-20.524 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	5 kW (ERP)	0.00001 %
20.5 MHz	FX	48K0D1D	5 kW (ERP)	0.00001 %
24.276-24.324 MHz	FX	3K00D1D 3K00D1E 6K00D1D 9K00D1D 12K0D1D 18K0D1D 24K0D1D	5 kW (ERP)	0.00001 %
24.3 MHz	FX	48K0D1D	5 kW (ERP)	0.00001 %

Special Conditions:

- (1) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.