

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WI2XCO

(Call Sign)

0057-EX-CM-2018

(File Number)

NAME Rurison, 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) Mountain View (SANTA CLARA), CA - NL 37-24-12; WL 122-06-45
- (2) Sebastapol, CA - NL 38-26-05; WL 122-56-34; MOBILE: Within aggregate area established by all locations, within 105 km
- (3) Belmont, CA - NL 37-31-00; WL 122-19-08; MOBILE: Within aggregate area established by all locations, within 105 km
- (4) Woodland, CA - NL 38-41-09; WL 121-46-38; MOBILE: Within aggregate area established by all locations, within 105 km
- (5) Redwood City, CA - NL 37-27-10; WL 122-13-55; MOBILE: Within aggregate area established by all locations, within 105 km
- (6) Pollock Pines, CA - NL 38-42-37; WL 120-37-29; MOBILE: Within aggregate area established by all locations, within 105 km
- (7) San Francisco, CA - NL 37-45-24; WL 122-28-42; MOBILE: Within aggregate area established by all locations, within 105 km
- (8) South Lake Tahoe, CA - NL 38-56-32; WL 119-56-44; MOBILE: Within aggregate area established by all locations, within 105 km
- (9) MOBILE: Within radius specified for each fixed location
- (10) Government Camp, OR - NL 45-18-11; WL 121-45-41; MOBILE: Within aggregate area established by all locations, within 105 km, centered around NL 45-18-11; WL 121-45-41
- (11) Portland, OR - NL 45-34-06; WL 122-32-10; MOBILE: Within aggregate area established by all locations, within 105 km, centered around NL 45-34-06; WL 122-32-10
- (12) Vancouver, WA - NL 45-36-27; WL 122-35-28; MOBILE: Within aggregate area established by all locations, within 105 km, centered around NL 45-36-27; WL 122-35-28

This authorization effective April 30, 2018 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

(13) Mercer Island, WA - NL 47-34-19; WL 122-12-31; MOBILE: Within aggregate area established by all locations, within 20 km, centered around NL 47-34-19; WL 122-12-31

Frequency Information

Mountain View (SANTA CLARA), CA - NL 37-24-12; WL 122-06-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D	5 W (ERP)	

Frequency Information

Mountain View (SANTA CLARA), CA - NL 37-24-12; WL 122-06-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.098-8.36 MHz	FX	2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D	5 W (ERP)	

Frequency Information

Mountain View (SANTA CLARA), CA - NL 37-24-12; WL 122-06-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
43.8-44.56 MHz	FX	2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Sebastapol, CA - NL 38-26-05; WL 122-56-34; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D	5 W (ERP)	

Frequency Information

Sebastapol, CA - NL 38-26-05; WL 122-56-34; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.05-5.072 MHz	FX	2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D	5 W (ERP)	

Frequency Information

Sebastapol, CA - NL 38-26-05; WL 122-56-34; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30.6-31.5 MHz	FX	2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Belmont, CA - NL 37-31-00; WL 122-19-08; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D	5 W (ERP)	

Frequency Information

Belmont, CA - NL 37-31-00; WL 122-19-08; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.05-3.21 MHz	FX	2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D	5 W (ERP)	

Frequency Information

Belmont, CA - NL 37-31-00; WL 122-19-08; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.419-13.86 MHz	FX	2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Woodland, CA - NL 38-41-09; WL 121-46-38; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D	5 W (ERP)	

Frequency Information

Woodland, CA - NL 38-41-09; WL 121-46-38; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.743-1.78 MHz	FX	2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D	5 W (ERP)	

Frequency Information

Woodland, CA - NL 38-41-09; WL 121-46-38; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.15-10.94 MHz	FX	2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Redwood City, CA - NL 37-27-10; WL 122-13-55; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Redwood City, CA - NL 37-27-10; WL 122-13-55; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Redwood City, CA - NL 37-27-10; WL 122-13-55; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Pollock Pines, CA - NL 38-42-37; WL 120-37-29; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Pollock Pines, CA - NL 38-42-37; WL 120-37-29; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Pollock Pines, CA - NL 38-42-37; WL 120-37-29; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

San Francisco, CA - NL 37-45-24; WL 122-28-42; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

San Francisco, CA - NL 37-45-24; WL 122-28-42; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

San Francisco, CA - NL 37-45-24; WL 122-28-42; MOBILE: Within aggregate area established by all locations, within 105 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

South Lake Tahoe, CA - NL 38-56-32; WL 119-56-44; MOBILE: Within aggregate area established by all locations, within 105

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

South Lake Tahoe, CA - NL 38-56-32; WL 119-56-44; MOBILE: Within aggregate area established by all locations, within 105

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

South Lake Tahoe, CA - NL 38-56-32; WL 119-56-44; MOBILE: Within aggregate area established by all locations, within 105

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

MOBILE: Within radius specified for each fixed location

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

MOBILE: Within radius specified for each fixed location

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.109-9.8 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

MOBILE: Within radius specified for each fixed location

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
47.01-49.57 MHz	MO	2K80F2D 2K80G2D	5 W (ERP)	

Government Camp, OR - NL 45-18-11; WL 121-45-41; MOBILE: Within aggregate area established by all locations, within 10!

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Government Camp, OR - NL 45-18-11; WL 121-45-41; MOBILE: Within aggregate area established by all locations, within 100

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Government Camp, OR - NL 45-18-11; WL 121-45-41; MOBILE: Within aggregate area established by all locations, within 100

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Portland, OR - NL 45-34-06; WL 122-32-10; MOBILE: Within aggregate area established by all locations, within 105 km, cent

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Portland, OR - NL 45-34-06; WL 122-32-10; MOBILE: Within aggregate area established by all locations, within 105 km, center

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Portland, OR - NL 45-34-06; WL 122-32-10; MOBILE: Within aggregate area established by all locations, within 105 km, center

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Vancouver, WA - NL 45-36-27; WL 122-35-28; MOBILE: Within aggregate area established by all locations, within 105 km, center

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Vancouver, WA - NL 45-36-27; WL 122-35-28; MOBILE: Within aggregate area established by all locations, within 105 km, cel

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Vancouver, WA - NL 45-36-27; WL 122-35-28; MOBILE: Within aggregate area established by all locations, within 105 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Mercer Island, WA - NL 47-34-19; WL 122-12-31; MOBILE: Within aggregate area established by all locations, within 20 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.7125-1.717 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
1.743-1.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
2.11-2.17 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
3.05-3.21 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
4.444-4.624 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
5.05-5.072 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
6.75-7.2 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
8.098-8.36 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Mercer Island, WA - NL 47-34-19; WL 122-12-31; MOBILE: Within aggregate area established by all locations, within 20 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.109-9.8 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
10.15-10.94 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
12.216-12.221 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
13.419-13.86 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
14.448-14.53 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
30.6-31.5 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
35.14-35.78 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	
43.8-44.56 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Frequency Information

Mercer Island, WA - NL 47-34-19; WL 122-12-31; MOBILE: Within aggregate area established by all locations, within 20 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
47.01-49.57 MHz	FX	2K80F2D 2K80G2D	5 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Rurison, INC. must coordinate with the Western Area Frequency Coordinator (WAFC), Mr. J. Heaton at (760) 939-6948 (Jamie.heaton@navy.mil) prior to any operations to mitigate harmful interference to Navy and Marine Corps assignments. Rurison, INC. must also comply with any and all restrictions that may be levied by WAFC.
- (5) Stop Buzzer Mr. Thomas Riddle, 650-208-5332 must be available during all phases of transmissions.