

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

EXPERIMENTAL

(Nature of Service)

WE2XVR

(Call Sign)

XD MO

(Class of Station)

0162-EX-ML-2012

(File Number)

NAME ImSAR LLC

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) MOBILE: Boardman, OR, within 16 km, centered around NL 45-44-52; WL 119-46-52
- (2) MOBILE: Spanish Fork, UT, within 100 km, centered around NL 39-44-11; WL 111-52-00
- (3) MOBILE: China Lake, CA, within 64 km, centered around NL 35-38-17; WL 117-40-12
- (4) MOBILE: Yuma, AZ, within 160 km, centered around NL 33-01-05; WL 114-15-13
- (5) MOBILE: Whidbey Island, WA, within 32 km, centered around NL 48-19-17; WL 122-38-12
- (6) MOBILE: Arlington, OR, within 32 km, centered around NL 45-42-56; WL 120-11-39
- (7) MOBILE: Within 5 miles of US/Mexico Border from Nogales AZ up to 50 miles east of Nogales along the international border, within 105 km, centered around NL 31-21-17; WL 110-57-56
- (8) MOBILE: Small Helicopter, under 1500 ft AGL, within 30 km, centered around NL 33-24-02; WL 84-09-43
- (9) MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 27-38-37; WL 81-16-25
- (10) MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 39-20-18; WL 86-01-46
- (11) MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 44-08-47; WL 75-38-41
- (12) MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 44-04-15; WL 90-38-51
- (13) MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 30-32-48; WL 86-43-52
- (14) MOBILE: mounted on low-flying aircraft (under 5000 feet), within 48.3 km, centered around NL 33-12-09; WL 114-02-56

This authorization effective December 10, 2012 and
will expire 3:00 A.M. EST January 30, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

(15) MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 40-12-01; WL 112-56-51

(16) MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 35-43-00; WL 120-45-53

Frequency Information

MOBILE: Boardman, OR, within 16 km, centered around NL 45-44-52; WL 119-46-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
16.7 GHz	MO	2G00F0N	2 W (ERP)	

MOBILE: Spanish Fork, UT, within 100 km, centered around NL 39-44-11; WL 111-52-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
380 MHz	MO	80M0F0N 80M0Q0N	5 W (ERP)	
435 MHz	MO	30M0F0N 30M0Q0N	5 W (ERP)	
550 MHz	MO	200MQ0N 200MF0N	5 W (ERP)	
805 MHz	MO	310MF0N	5 W (ERP)	

Frequency Information

MOBILE: Spanish Fork, UT, within 100 km, centered around NL 39-44-11; WL 111-52-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
805 MHz	MO	310MQ0N	5 W (ERP)	
1.625-1.85 GHz	MO	4M79G1D 9M58G1D 28M7G1D	1 W (ERP)	
10.25 GHz	MO	500MF0N 14M0D2W 7M00D2W 3M50D2W 1M75D2W 0M87D2W	2 W (ERP)	
16.7 GHz	MO	2G00F0N	2 W (ERP)	

MOBILE: China Lake, CA, within 64 km, centered around NL 35-38-17; WL 117-40-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
16.7 GHz	MO	2G00F0N	2 W (ERP)	

Frequency Information

MOBILE: Yuma, AZ, within 160 km, centered around NL 33-01-05; WL 114-15-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
16.7 GHz	MO	2G00F0N	2 W (ERP)	

MOBILE: Whidbey Island, WA, within 32 km, centered around NL 48-19-17; WL 122-38-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
16.7 GHz	MO	2G00F0N	2 W (ERP)	

MOBILE: Arlington, OR, within 32 km, centered around NL 45-42-56; WL 120-11-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550 MHz	MO	200MQ0N	2 W (ERP)	

Frequency Information

MOBILE: Arlington, OR, within 32 km, centered around NL 45-42-56; WL 120-11-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.25 GHz	MO	500MF0N	2 W (ERP)	
16.7 GHz	MO	2G00F0N	2 W (ERP)	

MOBILE: Within 5 miles of US/Mexico Border from Nogales AZ up to 50 miles east of Nogales along the international border, within 105 km, centered around NL 31-21-17; WL 110-57-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	

MOBILE: Small Helicopter, under 1500 ft AGL, within 30 km, centered around NL 33-24-02; WL 84-09-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550 MHz	MO	200MQ0N	2 W (ERP)	

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 27-38-37; WL 81-16-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
435 MHz	MO	30M0F0N	2 W (ERP)	

Frequency Information

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 27-38-37; WL 81-16-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
15.401-17.7 GHz	MO	2G00F0N	2 W (ERP)	

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 39-20-18; WL 86-01-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
435 MHz	MO	30M0F0N	2 W (ERP)	
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
15.401-15.7 GHz	MO	299MF0N	2 W (ERP)	
16.2-17.7 GHz	MO	299MF0N	2 W (ERP)	

Frequency Information

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 44-08-47; WL 75-38-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
435 MHz	MO	30M0F0N	2 W (ERP)	
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
15.401-17.7 GHz	MO	2G00F0N	2 W (ERP)	

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 44-04-15; WL 90-38-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
435 MHz	MO	30M0F0N	2 W (ERP)	
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
15.401-17.7 GHz	MO	2G00F0N	2 W (ERP)	

Frequency Information

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 30-32-48; WL 86-43-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
435 MHz	MO	30M0F0N	2 W (ERP)	
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
15.401-17.7 GHz	MO	2G00F0N	2 W (ERP)	

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 48.3 km, centered around NL 33-12-09; WL 114-02-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
435 MHz	MO	30M0F0N	2 W (ERP)	
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
15.401-17.7 GHz	MO	2G00F0N	2 W (ERP)	

Frequency Information

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 40-12-01; WL 112-56-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
380 MHz	MO	80M0F0N 80M0Q0N	5 W (ERP)	
435 MHz	MO	30M0F0N 30M0Q0N	5 W (ERP)	
550 MHz	MO	200MQ0N 200MF0N	5 W (ERP)	
805 MHz	MO	310MF0N 310MQ0N	5 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
15.401-15.7 GHz	MO	299MF0N	2 W (ERP)	
16.2-17.7 GHz	MO	299MF0N	2 W (ERP)	

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 35-43-00; WL 120-45-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
435 MHz	MO	30M0F0N	2 W (ERP)	

Frequency Information

MOBILE: mounted on low-flying aircraft (under 5000 feet), within 16.1 km, centered around NL 35-43-00; WL 120-45-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550 MHz	MO	200MQ0N	2 W (ERP)	
10.25 GHz	MO	500MF0N	2 W (ERP)	
15.401-17.7 GHz	MO	2G00F0N	2 W (ERP)	

Special Conditions:

- (1) Subject to prior coordination with American Society for Healthcare Engineering of the American Hospital Association (ASHE/AHA): Dale Woodin, ASHE Advocacy Director; American Hospital Association, One North Franklin; Chicago, IL 60606; (312) 422-3812, (312) 422-4571 (fax), dwoodin@aha.org.
- (2) All operations subject to coordination with the Gulf Area Frequency Coordinator located at Eglin AFB, Florida, prior to use with the area bounded by 27 degrees N. 33 degrees 30' N; and 83 degrees W. 90 degrees W.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) 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.
- (5) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (6) All operations in China Lake CA are subject to prior coordination with Western Area Frequency Coordinator at (760) 939-6948.
- (7) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Adam Robertson, at (801) 762-7263.
- (8) During transmission, aircraft shall not exceed the altitude of 5000 feet.