

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

EXPERIMENTAL

(Nature of Service)

XC FX MO

(Class of Station)

WE2XVR

(Call Sign)

0090-EX-TC-2026

(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(j) 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: Springville, UT, within 100 km, centered around NL 40-09-12; WL 111-38-58
- (3) MOBILE: China Lake, CA, within 64 km, centered around NL 35-38-17; WL 117-40-12
- (4) MOBILE: Whidbey Island, WA, within 32 km, centered around NL 48-19-17; WL 122-38-12
- (5) MOBILE: Arlington, OR, within 32 km, centered around NL 45-42-56; WL 120-11-39
- (6) MOBILE: McDonough, GA, within 30 km, centered around NL 33-24-02; WL 84-09-43
- (7) MOBILE: Avon Park, FL, within 16.1 km, centered around NL 27-38-37; WL 81-16-25
- (8) MOBILE: Camp Atterbury, IN, within 16.1 km, centered around NL 39-20-18; WL 86-01-46
- (9) MOBILE: Eglin AFB, FL, within 16.1 km, centered around NL 30-32-48; WL 86-43-52
- (10) MOBILE: Dugway, UT, within 16.1 km, centered around NL 40-12-01; WL 112-56-51
- (11) MOBILE: Utah
- (12) MOBILE: Fairbanks, AK, within 80 km, centered around NL 64-50-16; WL 147-42-58
- (13) MOBILE: Barrow, AK, within 80 km, centered around NL 71-17-25; WL 156-47-19
- (14) MOBILE: Wallops Island, VA, within 50 km, centered around NL 37-52-53; WL 75-26-15
- (15) MOBILE: Patuxent River, MD, within 50 km, centered around NL 38-16-41; WL 76-25-23
- (16) MOBILE: Hood River, OR, within 10 km, centered around NL 45-40-18; WL 121-32-29
- (17) MOBILE: North Slope Borough, AK, including 12 nmi offshore, within 130 km, centered around NL 70-11-52; WL 148-27-38
- (18) MOBILE: Anchorage, AK, within 80 km, centered around NL 61-13-00; WL 149-54-02
- (19) Corbin (CAROLINE), VA - NL 38-11-49; WL 77-20-41
- (20) Gulf of Mexico, GM - NL 26-06-47; WL 96-32-45; MOBILE: Gulf of Mexico, GM, within 80 km, centered around NL 26-06-47; WL 96-32-45

This authorization effective August 11, 2026 and
will expire 3:00 A.M. ET January 01, 2027

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

(21) Tuscon (PIMA), AZ - NL 32-05-17; WL 110-56-33; MOBILE: Tuscon, AZ, within 45 km, centered around NL 32-05-17; WL 110-56-33

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 (+/-)
604 MHz	MO	308MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	

MOBILE: Springville, UT, within 100 km, centered around NL 40-09-12; WL 111-38-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	121 W (ERP)	
769-788 MHz	MO	19M0Q0N	121 W (ERP)	
879.5 MHz	MO	161MQ0N	121 W (ERP)	
1625-1850 MHz	MO	28M7G1D	2 W (ERP)	

Frequency Information

MOBILE: Springville, UT, within 100 km, centered around NL 40-09-12; WL 111-38-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1805 MHz	MO	390MQ0N	15 W (ERP)	
2400-2450 MHz	MO	20M0D7W	97 W (ERP)	
8750 MHz	MO	500MF0N	193 W (ERP)	
9875 MHz	MO	1G35F0N	193 W (ERP)	
16.4 GHz	MO	2G00F0N	484 W (ERP)	
16.4 GHz	MO	2G00F0N	153 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 (+/-)
604 MHz	MO	308MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	

Frequency Information

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 (+/-)
1805 MHz	MO	390MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 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 (+/-)
604 MHz	MO	308MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 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 (+/-)
604 MHz	MO	308MQ0N	15 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 (+/-)
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	
15.4-17.4 GHz	MO	2G00F0N	153 W (ERP)	
16.4 GHz	MO	2G00F0N	484 W (ERP)	

MOBILE: McDonough, GA, within 30 km, centered around NL 33-24-02; WL 84-09-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
604 MHz	MO	308MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	

Frequency Information

MOBILE: McDonough, GA, within 30 km, centered around NL 33-24-02; WL 84-09-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.4 GHz	MO	2G00F0N	484 W (ERP)	
16.4 GHz	MO	2G00F0N	153 W (ERP)	

MOBILE: Avon Park, FL, within 16.1 km, centered around NL 27-38-37; WL 81-16-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	
17.2 GHz	MO	2G00F0N	484 W (ERP)	
17.2 GHz	MO	2G00F0N	153 W (ERP)	

Frequency Information

MOBILE: Camp Atterbury, IN, within 16.1 km, centered around NL 39-20-18; WL 86-01-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	

MOBILE: Eglin AFB, FL, within 16.1 km, centered around NL 30-32-48; WL 86-43-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	
15.4-17.4 GHz	MO	2G00F0N	153 W (ERP)	
15.4-15.7 GHz	MO	100MW7W	484 W (ERP)	
15.4-15.7 GHz	MO	100MW7W	153 W (ERP)	

Frequency Information

MOBILE: Eglin AFB, FL, within 16.1 km, centered around NL 30-32-48; WL 86-43-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.4 GHz	MO	2G00F0N 100MW7W	484 W (ERP)	

MOBILE: Dugway, UT, within 16.1 km, centered around NL 40-12-01; WL 112-56-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
1805 MHz	MO	390MQ0N	15 W (ERP)	
8750 MHz	MO	500MF0N	193 W (ERP)	
9875 MHz	MO	1G35F0N	193 W (ERP)	
16.2-18.2 GHz	MO	2G00F0N	484 W (ERP)	
17.2 GHz	MO	2G00F0N	484 W (ERP)	
17.2 GHz	MO	2G00F0N	153 W (ERP)	

Frequency Information

MOBILE: Utah

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
2400-2500 MHz	MO	20M0D7W	97 W (ERP)	
1.625-1.85 GHz	MO	28M7G1D	2 W (ERP)	
10.25 GHz	MO	500MF0N	1531.1 W (ERP)	
15.4-15.7 GHz	MO	100MW7W	153 W (ERP)	
15.4-15.7 GHz	MO	100MW7W	484 W (ERP)	
15.4-17.4 GHz	MO	2G00F0N	153 W (ERP)	
16.4 GHz	MO	2G00F0N 100MW7W	484 W (ERP)	

Frequency Information

MOBILE: Fairbanks, AK, within 80 km, centered around NL 64-50-16; WL 147-42-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	
15.4-17.4 GHz	MO	2G00F0N	153 W (ERP)	
16.4 GHz	MO	2G00F0N	484 W (ERP)	

MOBILE: Barrow, AK, within 80 km, centered around NL 71-17-25; WL 156-47-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	

Frequency Information

MOBILE: Barrow, AK, within 80 km, centered around NL 71-17-25; WL 156-47-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.25 GHz	MO	500MF0N	193 W (ERP)	
15.4-17.4 GHz	MO	2G00F0N	153 W (ERP)	
16.4 GHz	MO	2G00F0N	484 W (ERP)	

MOBILE: Wallops Island, VA, within 50 km, centered around NL 37-52-53; WL 75-26-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	
16.4 GHz	MO	2G00F0N	484 W (ERP)	
16.4 GHz	MO	2G00F0N	153 W (ERP)	

Frequency Information

MOBILE: Patuxent River, MD, within 50 km, centered around NL 38-16-41; WL 76-25-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	
16.4 GHz	MO	2G00F0N	484 W (ERP)	
16.4 GHz	MO	2G00F0N	153 W (ERP)	

MOBILE: Hood River, OR, within 10 km, centered around NL 45-40-18; WL 121-32-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	

Frequency Information

MOBILE: Hood River, OR, within 10 km, centered around NL 45-40-18; WL 121-32-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.25 GHz	MO	500MF0N	193 W (ERP)	
16.4 GHz	MO	2G00F0N	484 W (ERP)	
16.4 GHz	MO	2G00F0N	153 W (ERP)	

MOBILE: North Slope Borough, AK, including 12 nmi offshore, within 130 km, centered around NL 70-11-52; WL 148-27-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
604 MHz	MO	308MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	
16.4 GHz	MO	2G00F0N	484 W (ERP)	
16.4 GHz	MO	2G00F0N	153 W (ERP)	

Frequency Information

MOBILE: Anchorage, AK, within 80 km, centered around NL 61-13-00; WL 149-54-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
589 MHz	MO	338MQ0N	15 W (ERP)	
769-788 MHz	MO	19M0Q0N	15 W (ERP)	
879.5 MHz	MO	161MQ0N	15 W (ERP)	
10.25 GHz	MO	500MF0N	193 W (ERP)	

Corbin (CAROLINE), VA - NL 38-11-49; WL 77-20-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2422.5 MHz	FX	55M0D7W	97 W (ERP)	

Gulf of Mexico, GM - NL 26-06-47; WL 96-32-45; MOBILE: Gulf of Mexico, GM, within 80 km, centered around NL 26-06-47; \

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5735-5865 MHz	FX	20M0D7W	97 W (ERP)	
9.775 GHz	MO	350MF0N	39261.18 W (ERP)	

Frequency Information

Tuscon (PIMA), AZ - NL 32-05-17; WL 110-56-33; MOBILE: Tuscon, AZ, within 45 km, centered around NL 32-05-17; WL 110-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5735-5865 MHz	MO	20M0D7W	97 W (ERP)	
9.775 GHz	MO	350MF0N	39261.18 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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) 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.
- (5) 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.
- (6) All operations in China Lake CA are subject to prior coordination with Western Area Frequency Coordinator at (760) 939-6948.
- (7) During transmission, aircraft shall not exceed the altitude of 10000 feet.
- (8) Operation must be prior coordinated with MID AFC at (301) 342-1194.
- (9) Operation in the bands 806-821 MHz and 851-866 MHz is subject to prior coordination with the Associated Public Safety Communications Officers, Inc. (APCO); ATTN: Director of Frequency Coordination; 351 North Williamson Blvd.; Daytona Beach, FL 32114-1112; Telephone: (386) 322-2500.
- (10) Notch out the band 769 MHz to 775 MHz.
- (11) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 141 miles of the contours of the testing area:
 - 700 MHz Upper Band "C" block (746-757 MHz/776-787 MHz) licensee (Verizon and/or lessees)
 - 700 MHz Guard Band licensees (757-758 MHz/787-788 MHz)
 - Cellular licensees (824-849 MHz/869-894 MHz)
 - 1670-1675 MHz Band licensee (Crown Castle International), and the lessee (One Dot Six Corp)

Special Conditions:

- (12) Licensee shall secure consents from the Advanced Wireless Service licensees in proposed areas prior to accessing to the frequency range from 1695 MHz to 1750 MHz .
- (13) Licensee shall coordinate with the local Society of Broadcast Engineers frequency coordinator in each proposed area prior to operation on 10.25 GHz, 604 MHz, 598 MHz and the frequencies from 2450 MHz to 2500 MHz.
- (14) Licensee shall coordinate with the Fixed Microwave Service licensees in the proposed venues in accordance with 47 C.F.R, Part 101.103(d) prior to operation in the frequencies from 2450 MHz to 2500 MHz.
- (15) Licensee shall secure consents from the Broadband Radio Service licensees in the proposed areas prior to accessing to the frequency range from 2496 MHz to 2500 MHz.
- (16) Stop Buzzer: Josh Snook at (801) 798-8440, josh.snook@imsar.com; Mr. Adam Robertson at (801) 762-7263.
- (17) Prior to commencing any operations at the 9875 MHz and in the 9.6-9.95 GHz (within the 9200-10400 MHz) frequency bands, experimental licensee must notify licensee of Umbra Lab Inc (POC/Satellite: call sign S3095. Attention: Legal Department Phone Number: (805) 351-3001, E-Mail: legal@umbra.space). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (18) Prior to commencing any operations at the 9875 MHz and in the 9.6-9.95 GHz (within the 9300 - 9900 MHz) frequency bands, experimental licensee must notify licensee of Capella Space Corp. (POC/Satellite: call sign S3073, S3080, S3100, S3137. Attention: Mr Daniel J Connors Jr Phone Number: 415-481-4727). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (19) Operations in the 1544-1545/1645.5-1646.5 MHz frequency bands ARE LIMITED to distress and safety communications, in accordance with International Footnotes 5.356 and 5.375 of the ITU Radio Regulations.
- (20) Prior to commencing any operations at the 1805 MHz and in the 2400-2500 MHz (within the 1610 - 1618.725 MHz and 2483.5 - 2500 MHz) frequency bands, experimental licensee must notify licensee of GUSA Licensee LLC. (Call sign E970381, S2115. Name: Mr. L. Barbee Ponder IV Phone Number: 985-335-1503 E-Mail: Barbee.Ponder@Globalstar.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Special Conditions:

- (21) Prior to commencing any operations at the 16.4 GHz and 17.2 GHz, and in the 15.4-17.4 GHz with emission 2G00F0N (within the 17.3-17.7 GHz) bands, experimental licensee must notify licensees of DIRECTV Enterprises, LLC (. Phone Number: 310-964-3589 E-Mail: nm704u@att.com Attention: Navid Motamed) and DirecTV/AT&T (Mr. Raquel Noriega Email: raquel.noriega@att.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna pattern, antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (22) Prior to commencing any operations at the 16.4 GHz and 17.2 GHz, and in the 15.4-17.4 GHz with emission 2G00F0N (within the 17.3-17.7 GHz) bands, experimental licensee must notify licensees of DISH Operating L.L.C. (Blanket Earth Stations call sign: E140100. Phone Number: 202-463-3709 E-Mail: Alison.Minea@dish.com Attention: Alison Minea). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna pattern, antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (23) The company is responsible for managing any required transfer of control for the associated military contract directly with the U.S. Military.
- (24) Assignments and transfers of control shall be completed within 180 days from the date of authorization. Within 30 days of consummation, the Commission shall be notified by letter of the date of consummation and the file numbers of the applications involved in the transaction.