

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

EXPERIMENTAL
(Nature of Service)

XT MO
(Class of Station)

WB9XGM
(Call Sign)

0100-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: On a aircraft not to exceed 10,000ft AGL, Virginia Beach, VA, within 34 km, centered around NL 36-55-13; WL 75-59-49

Frequency Information

MOBILE: On a aircraft not to exceed 10,000ft AGL, Virginia Beach, VA, within 34 km, centered around NL 36-55-13; WL 75-59-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.5-17 GHz	MO	500MF0N	11350 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) IMSAR LLC shall move the center point of flight circle 30 nautical miles south to NL 36-25-13; WL 75-59-49 and reduce maximum altitude to 7400 ft MSL.
- (3) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (4) The beam direction must be maintain at an angle of no more than 70 degrees with respect to the downward-pointing direction from the transmitter.

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

FEDERAL
COMMUNICATIONS
COMMISSION



Special Conditions:

- (5) Prior to commencing operations in the authorized frequency band(s), the experimental licensee must notify the potentially affected licensees below. 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 also include the testing parameters (e.g., specific location(s), frequency bands, antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Frequency Bands: 17.3-17.8 GHz (E-s) (Call sign S2861)
Licensee: NOVAVISION GROUP, INC./DIRECTV Enterprises, LLC
ATTN: Mr. Navid Motamed. Phone Number: 310-964-3589 E-Mail: nm704u@att.com and DirecTV/AT&T. Mr. Raquel Noriega Email: raquel.noriega@att.com

Frequency Bands: 17.3-17.8 GHz (s-E) (Call sign S2844)
Licensee: EchoStar Satellite Operating Corporation Phone Number: 202-463-3709
Frequency Bands: 17.3-17.8 GHz (E-s) (Call sign S2931)
Licensee: DISH Operating L.L.C. Phone Number: 202-463-3709
ATTN: Ms. Alison Minea, E-Mail: Alison.Minea@dish.com

Frequency Bands: 17.3-17.8 GHz (E-s) (Call sign S2844)
Licensee: EchoStar Satellite Operating Corporation Phone Number: 202-463-3709
Frequency Bands: 17.3-17.8 GHz (E-s) 17.303 GHz (E-s) 17.791-17.796 GHz (E-s) (Call sign S2931)
Licensee: DISH Operating L.L.C. Phone Number: 202-463-3709
ATTN: Ms. Alison Minea, E-Mail: Alison.Minea@dish.com

Frequency Bands: 17.3-17.55 GHz (E-s) (Call sign S2950)
Licensee: New Skies Satellites B.V.
Frequency Bands: 17.3-19.4GHz (s-E) (Call sign S3043)
Licensee: SES Astra (S.A.) Phone Number: 202-478-7191
ATTN: Mr. Daniel C.H. Mah, Email: daniel.mah@ses.com

Frequency Bands: 17.7-19.3 GHz (s-E) (Call sign S2902)
Licensee: ViaSat, Inc. Phone Number: 760-476-2583
ATTN: Mr. Daryl T. Hunter Email: daryl.hunter@viasat.com

- (6) Stop Buzzer POC: Josh Snook, josh.snook@imsar.com, 801.598.2843
- (7) The beam direction must be maintain at an angle of no more than 70 degrees with respect to the downward-pointing direction from the transmitter.
- (8) 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.