

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

EXPERIMENTAL

(Nature of Service)

WD2XSB

(Call Sign)

XD FX MO

(Class of Station)

0155-EX-RR-2011

(File Number)

NAME General Dynamics SATCOM Technologies, 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(d & h) of the Commission's Rules

Station Locations

- (1) Richardson, TX - NL 32-58-27; WL 96-42-15
- (2) Taunton, MA - NL 41-57-05; WL 71-07-48
- (3) Duluth, GA - NL 34-00-46; WL 84-16-12
- (4) Scottsdale, AZ - NL 33-28-20; WL 111-54-22
- (5) MOBILE: US

Frequency Information

Richardson, TX - NL 32-58-27; WL 96-42-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	2M60G1D	80.1 kW (ERP)	0.00001 %

Taunton, MA - NL 41-57-05; WL 71-07-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	2M60G1D	80.1 kW (ERP)	0.00001 %

This authorization effective June 01, 2011 and
will expire 3:00 A.M. EST June 01, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Duluth, GA - NL 34-00-46; WL 84-16-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	2M60G1D	80.1 kW (ERP)	0.00001 %

Scottsdale, AZ - NL 33-28-20; WL 111-54-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	2M60G1D	80.1 kW (ERP)	0.00001 %

MOBILE: US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	2M60G1D	48.8 kW (ERP)	0.00001 %

Special Conditions:

- (1) In accordance with Article 4.4 of the ITU Radio Regulations, the operations authorized herein shall not cause harmful interference to, and shall not claim protection from harmful interference caused by, a station operating in accordance with the provisions of the ITU Constitution, the ITU Convention, and the ITU Radio Regulations.
- (2) POINTS OF COMMUNICATION: Intelsat 707 at 53 degrees West Longitude, AMC-9 at 83 degrees W.L., Horizons 1 at 127 degrees W.L., IA-5 at 97 degrees W.L., IA-6 at 93 degrees W.L., IA-7 at 129 degrees W.L., IA-8 at 89 degrees W.L., Intelsat 9 at 58 degrees W.L., AMC-6 at 72 degrees W.L., Horizons 2 at 74 degrees W.L., AMC-5 at 79 degrees W.L., AMC-2 at 85 degrees W. L., AMC-16 at 85 degrees W.L., Galaxy 17 at 91 degrees W.L., Galaxy 16 at 99 degrees W.L., AMC-4 at 101 degrees W.L., AMC-1 at 103 degrees W.L., AMC-15 at 105 degrees W.L. and AMC-21 at 125 degrees W.L.

Special Conditions:

- (3) National Science Foundation (NSF) requests that General Dynamics SATCOM Technologies, Inc.:
- 1) Coordinate operation at the Taunton, MA site with the National Radio Astronomy Observatory's VLBA site at Hancock, NH. (POC Mr. Dan Mertely at Socorro, NM, Phone: 505- 835-7027 and e-mail: dmertely@nrao.edu).
 - 2) Coordinate operation at the Fredericksburg, VA site with Wes Sizemore at Green Bank. (Phone: 304-456-2107, e-mail:wsizemor@nrao.edu).
- (4) Prior to commencement of operation with any satellite listed as a point of communication pursuant to this experimental license, General Dynamics SATCOM Technologies, Inc. shall obtain certifications from the owners of the satellites used as points of communication that the respective owners have notified all satellite operators with co-frequency operations within 6 degrees longitude of the respective satellites used as points of communication, generally describing the experimental operations authorized herein, including the term thereof, and providing a point of contact for the purpose of resolving any complaints of interference. General Dynamics SATCOM Technologies, Inc. shall obtain a similar certification from the owner of any satellite used as a point of communication if, during the term of this STA, a new or different satellite operator commences co-frequency operations within 6 degrees longitude of any satellite used as a point of communication. If the point of contact receives a complaint of harmful interference, the party receiving the complaint (if not General Dynamics SATCOM Technologies, Inc.) will notify General Dynamics SATCOM Technologies, Inc., and General Dynamics SATCOM Technologies, Inc. shall immediately cease such operations or adjust such operations to avoid harmful interference. General Dynamics SATCOM Technologies, Inc. will submit a copy of certification(s) from all satellite owners used as points of communication to the Commission for incorporation into the record of this file.
- (5) No transmissions are permitted between 14.0 GHz and 14.2 GHz within 125 km of White Sands, NM (latitude: 32° 20' 59" N, longitude 106° 36' 31" W and latitude: 32° 32' 40" N, longitude 106° 36' 48" W).
- (6) No transmissions are permitted between 14.47 GHz and 14.5 GHz within 125 km of Mauna Kea, HI (at latitude 19° 48' N, longitude 155° 28' W).
- (7) In accordance with 47CFR25.222(d), licensee must cease operations between 14.0 GHz and 14.2 GHz within 125 km of the new Blossom Point, MD, TDRSS facilities, whose coordinates are 38°25'44"N, 77°05'20"W, when those facilities become operational, unless and until licensee reaches an agreement with NASA permitting such operations.