

**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)

0123-EX-PL-2005

(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; MOBILE: VertexRSI facility, within 10 km
- (2) MOBILE: General Dynamics Tauton, MA facility, within 5 km, centered around NL 41-57-05; WL 71-07-48
- (3) MOBILE: Fort Gordon, GA, within 5 km, centered around NL 33-24-36; WL 82-08-24
- (4) MOBILE: VertexRSI Duluth, GA facility, within 5 km, centered around NL 33-55-10; WL 84-16-12
- (5) MOBILE: Coherent Systems Fredericksburg, VA facility, within 5 km, centered around NL 38-19-50; WL 77-28-56

Frequency Information

Richardson, TX - NL 32-58-27; WL 96-42-15; MOBILE: VertexRSI facility, within 10 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.36-14.5 GHz	MO	2M60G1D	80.1 kW (ERP)	0.00001 %
14.36-14.5 GHz	FX	2M60G1D	180.7 kW (ERP)	0.00001 %

This authorization effective May 31, 2005 and
will expire 3:00 A.M. EST June 01, 2007

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: General Dynamics Tauton, MA facility, within 5 km, centered around NL 41-57-05; WL 71-07-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.36-14.5 GHz	MO	2M60G1D	80.1 kW (ERP)	0.00001 %

MOBILE: Fort Gordon, GA, within 5 km, centered around NL 33-24-36; WL 82-08-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.36-14.5 GHz	MO	2M60G1D	80.1 kW (ERP)	0.00001 %

MOBILE: VertexRSI Duluth, GA facility, within 5 km, centered around NL 33-55-10; WL 84-16-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.36-14.5 GHz	MO	2M60G1D	80.1 kW (ERP)	0.00001 %

MOBILE: Coherent Systems Fredericksburg, VA facility, within 5 km, centered around NL 38-19-50; WL 77-28-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.36-14.5 GHz	MO	2M60G1D	80.1 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) POINT OF COMMUNICATION: Intelsat 707 at 53 degrees West Longitude.

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).