

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WD2XYX

(Call Sign)

0245-EX-PL-2006

(File Number)

NAME Northrop Grumman Space & Mission Systems Corporation

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, f, g, j) of the Commission's Rules

Station Locations

(1) MOBILE: CONUS

Frequency Information

MOBILE: CONUS

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1627.1-1627.7 MHz	MO	200KG7W 200KD7W 200KD7W 50K0G7W 25K0G7W	41 W (ERP)	
1627.1-1627.7 MHz	MO	200KG7W 200KD7W 200KD7W 50K0G7W 25K0G7W	125 W (ERP)	

This authorization effective October 03, 2006 and
will expire 3:00 A.M. EST April 01, 2007

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: CONUS

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1639.3-1639.5 MHz	MO	200KG7W 200KD7W 200KD7W 50K0G7W 25K0G7W	41 W (ERP)	
1639.3-1639.5 MHz	MO	200KG7W 200KD7W 200KD7W 50K0G7W 25K0G7W	125 W (ERP)	
1642.5-1642.7 MHz	MO	200KG7W 200KD7W 200KD7W 50K0G7W 25K0G7W	41 W (ERP)	
1642.5-1642.7 MHz	MO	200KG7W 200KD7W 200KD7W 50K0G7W 25K0G7W	125 W (ERP)	
1643.9-1644.3 MHz	MO	200KG7W 200KD7W 200KD7W 50K0G7W 25K0G7W	41 W (ERP)	

Frequency Information

MOBILE: CONUS

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1643.9-1644.3 MHz	MO	200KG7W	125 W (ERP)	
		200KD7W		
		200KD7W		
		50K0G7W		
		25K0G7W		
1646.5-1647.7 MHz	MO	200KG7W	125 W (ERP)	
		200KD7W		
		200KD7W		
		50K0G7W		
		25K0G7W		
1646.5-1647.7 MHz	MO	200KG7W	41 W (ERP)	
		200KD7W		
		200KD7W		
		50K0G7W		
		25K0G7W		

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) 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.
- (3) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (4) POINT OF COMMUNICATION: INMARSAT 4F2 Satellite.
- (5) Northrop Grumman shall assure that adequate guard bands are provided between the band edges of its carriers and the band edges of MSV's operations in order to preclude the possibility of unacceptable interference to MSV's operations.

Special Conditions:

- (6) Neither the aggregate uplink EIRP densities in the direction of any other L-band satellite serving the United States, nor the downlink EIRP densities at any geographical point within the United States, shall be increased as a result of the addition of experimental BGAN operations on the Inmarsat 4F2 satellite over those densities previously authorized on the Inmarsat 3F4 satellite.
- (7) Northrop Grumman shall notify MSV prior to commencing operations and identify its point of contact.