

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

EXPERIMENTAL

(Nature of Service)

WD2XJU

(Call Sign)

FX

(Class of Station)

0116-EX-PL-2004

(File Number)

NAME Hughes Network Systems, 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.

Station Locations

- (1) San Diego (SAN DIEGO), CA - NL 32-54-31; WL 117-11-26
- (2) Gaithersburg, MD - NL 39-09-02; WL 77-12-31

Frequency Information

San Diego (SAN DIEGO), CA - NL 32-54-31; WL 117-11-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.65-1627.15 MHz	FX	156KD7W	51.8 W (ERP)	
1626.65-1627.15 MHz	FX	156KG7W	51.8 W (ERP)	
1626.65-1627.15 MHz	FX	31K2D7W	51.8 W (ERP)	
1626.65-1627.15 MHz	FX	31K2G7W	51.8 W (ERP)	
1630.7-1631.035 MHz	FX	156KD7W	51.8 W (ERP)	
1630.7-1631.035 MHz	FX	156KG7W	51.8 W (ERP)	
1630.7-1631.035 MHz	FX	31K2D7W	51.8 W (ERP)	
1630.7-1631.035 MHz	FX	31K2G7W	51.8 W (ERP)	
1638.5-1643 MHz	FX	31K2D7W	51.8 W (ERP)	
1638.5-1643 MHz	FX	31K2G7W	51.8 W (ERP)	
1649.82-1650.05 MHz	FX	156KD7W	51.8 W (ERP)	
1649.82-1650.05 MHz	FX	156KG7W	51.8 W (ERP)	
1649.82-1650.05 MHz	FX	31K2D7W	51.8 W (ERP)	
1649.82-1650.05 MHz	FX	31K2G7W	51.8 W (ERP)	

This authorization effective June 08, 2004 and
will expire 3:00 A.M. EST June 01, 2005

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Gaithersburg, MD - NL 39-09-02; WL 77-12-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.65-1627.15 MHz	FX	31K2D7W	51.8 W (ERP)	
1626.65-1627.15 MHz	FX	31K2G7W	51.8 W (ERP)	
1626.65-1627.15 MHz	FX	156KD7W	51.8 W (ERP)	
1626.65-1627.15 MHz	FX	156KG7W	51.8 W (ERP)	
1630.7-1631.035 MHz	FX	31K2D7W	51.8 W (ERP)	
1630.7-1631.035 MHz	FX	31K2G7W	51.8 W (ERP)	
1630.7-1631.035 MHz	FX	156KD7W	51.8 W (ERP)	
1630.7-1631.035 MHz	FX	156KG7W	51.8 W (ERP)	
1638.5-1643 MHz	FX	31K2D7W	51.8 W (ERP)	
1638.5-1643 MHz	FX	31K2G7W	51.8 W (ERP)	
1649.82-1650.05 MHz	FX	31K2D7W	51.8 W (ERP)	
1649.82-1650.05 MHz	FX	31K2G7W	51.8 W (ERP)	
1649.82-1650.05 MHz	FX	156KD7W	51.8 W (ERP)	
1649.82-1650.05 MHz	FX	156KG7W	51.8 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) POINT OF COMMUNICATION: INMARSAT Satellite
- (3) Prior to operation of this experimental earth station with any INMARSAT satellite system, the satellite service provider must obtain an appropriate authorization from the International Bureau of the Federal Communications Commission.