

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WD2XFP

(Call Sign)

0489-EX-ST-2004

(File Number)

NAME Hughes Network Systems, Inc.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Testing of Ka band earth station terminals in the SPACEWAY satellite system using the HNS Ka band Satellite Simulation Test Range at the HNS headquarters in Germantown, MD.

Station Locations

- (1) Germantown (MONTGOMERY), MD - NL 39-10-43; WL 77-14-41
- (2) Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49
- (3) Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49
- (4) Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49
- (5) Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49
- (6) Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49
- (7) Germantown (MONTGOMERY), MD - NL 39-10-45; WL 77-14-52
- (8) Germantown (MONTGOMERY), MD - NL 39-10-45; WL 77-14-52

Frequency Information

Germantown (MONTGOMERY), MD - NL 39-10-43; WL 77-14-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
19700-20200 MHz	FX	500MG7W	385 uW (ERP)	

This authorization effective August 27, 2004 and
will expire 3:00 A.M. EST November 17, 2004

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29500-30000 MHz	FX	2M61G7W 20M9G7W	67.2 kW (ERP)	
29500-30000 MHz	FX	650KG7W	16.8 kW (ERP)	

Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29500-30000 MHz	FX	2M61G7W 20M9G7W	233 kW (ERP)	
29500-30000 MHz	FX	650KG7W	58.2 kW (ERP)	

Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29500-30000 MHz	FX	20M9G7W	1.3 MW (ERP)	
29500-30000 MHz	FX	2M61G7W	520 kW (ERP)	
29500-30000 MHz	FX	650KG7W	130 kW (ERP)	

Frequency Information

Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29500-30000 MHz	FX	20M9G7W 2M61G7W	153.8 kW (ERP)	
29500-30000 MHz	FX	650KG7W	38.5 kW (ERP)	

Germantown (MONTGOMERY), MD - NL 39-10-46; WL 77-14-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29500-30000 MHz	FX	2M61G7W 20M9G7W	88.5 kW (ERP)	
29500-30000 MHz	FX	650KG7W	22.1 kW (ERP)	

Germantown (MONTGOMERY), MD - NL 39-10-45; WL 77-14-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
19.7-20.2 GHz	FX	500MG7W	2.9 kW (ERP)	

Frequency Information

Germantown (MONTGOMERY), MD - NL 39-10-45; WL 77-14-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.5-30 GHz	FX	650KG7W	473 kW (ERP)	
29.5-30 GHz	FX	2M61G7W	1.892 MW (ERP)	
29.5-30 GHz	FX	20M9G7W	16.56 MW (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.