

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

EXPERIMENTAL

(Nature of Service)

WH2XZL

(Call Sign)

XT MO

(Class of Station)

0097-EX-ML-2016

(File Number)

NAME HNS License Sub, LLC

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(h & j) of the Commission's Rules

Station Locations

- (1) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (2) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (3) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (4) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (5) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (6) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (7) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (8) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (9) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (10) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (11) MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09
- (12) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32
- (13) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

This authorization effective August 04, 2016 and
will expire 3:00 A.M. EST November 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (14) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10;
WL 77-12-32
- (15) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10;
WL 77-12-32
- (16) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10;
WL 77-12-32
- (17) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10;
WL 77-12-32
- (18) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10;
WL 77-12-32
- (19) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10;
WL 77-12-32
- (20) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10;
WL 77-12-32
- (21) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10;
WL 77-12-32
- (22) MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10;
WL 77-12-32

Frequency Information

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	31.6 W (ERP)	
		62K5G1W		
		156KG1W		

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	31.6 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

Frequency Information

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	63.1 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	31.6 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	0.3 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

Frequency Information

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	1.4 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	1.4 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	63.1 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

Frequency Information

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	1.4 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	10.5 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Southern California, within 240 km, centered around NL 32-53-45; WL 117-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	31.6 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

Frequency Information

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W 62K5G1W 156KG1W	31.6 W (ERP)	

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W 31K3G1W 62K5G1W 62K5G1W 156KG1W 156KG1W	31.6 W (ERP)	

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W 31K3G1W 62K5G1W 62K5G1W 156KG1W 156KG1W	63.1 W (ERP)	

Frequency Information

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	31.6 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	0.3 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	1.4 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

Frequency Information

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	1.4 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	63.1 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	1.4 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

Frequency Information

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	31.6 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

MOBILE: Maryland, Virginia, Delaware, within 240 km, centered around NL 39-09-10; WL 77-12-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	31K3G1W	10.5 W (ERP)	
		31K3G1W		
		62K5G1W		
		62K5G1W		
		156KG1W		
		156KG1W		

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) POINT OF COMMUNICATIONS: Morelos-3 Satellite.