



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
RADIO STATION AUTHORIZATION**

Name: HNS License Sub, LLC

Call Sign: E160065

Authorization Type: Modification of License

File Number: SES-MOD-20170607-00627

Non Common Carrier

Grant date: 07/31/2017

Expiration Date: 07/13/2031



Nature of Service: Fixed Satellite Service

Class of Station: Fixed Earth Stations

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	9815 W Hallett Road Spokane, Spokane, WA 99224	47°35'31.5"N	117°33'1.4"W	740.83	83

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

*Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning July 13, 2016 (3 AM Eastern Standard Time) and ending July 13, 2031 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is July 13, 2018 (3 AM Eastern Standard Time). Grantee must file with the Commission a certification upon completion of construction and commencement of operation.*

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	29250.0000-30000.0000	L,R	250MD7W	Tx	77.80	29.90	1		DVB-S32 Outroute
2)	27850.0000-28600.0000	L,R	250MD7W	Tx	77.80	29.90	1		DVB-S32 Outroute
3)	19700.0000-20200.0000	L,R	10M2G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
4)	19700.0000-20200.0000	L,R	15M4G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
5)	19700.0000-20200.0000	L,R	1M28G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
6)	19700.0000-20200.0000	L,R	2M56G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
7)	19700.0000-20200.0000	L,R	5M12G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
8)	19700.0000-20200.0000	L,R	640KG7W	Rx	0.00	0.00	1		M-ary PSK Inroute
9)	19700.0000-20200.0000	L,R	7M68G7W	Rx	0.00	0.00	1		M-ary PSK Inroute



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#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
10)	18300.0000-18800.0000	L,R	10M2G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
11)	18300.0000-18800.0000	L,R	15M4G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
12)	18300.0000-18800.0000	L,R	1M28G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
13)	18300.0000-18800.0000	L,R	2M56G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
14)	18300.0000-18800.0000	L,R	5M12G7W	Rx	0.00	0.00	1		M-ary PSK Inroute
15)	18300.0000-18800.0000	L,R	640KG7W	Rx	0.00	0.00	1		M-ary PSK Inroute
16)	18300.0000-18800.0000	L,R	7M68G7W	Rx	0.00	0.00	1		M-ary PSK Inroute

**C) Frequency Coordination Limits**

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	18300.0000-20200.0000	63.0W	63.0W	14.6	14.6	117.7	117.7	-9999	1
2)	27850.0000-30000.0000	63.0W	63.0W	14.6	14.6	117.7	117.7	-29.8	1

**D) Points of Communications**

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

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- 1) I to TELSTAR 19 V (S2955) @ 63 W.L. (UK-Licensed)



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**E) Antenna Facilities**

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
1	1	1	5.6	ASC	5.6 meter	740.83	6.9 AGL/ 748.5 AMSL	
Max Gains(s):		62.6 dBi @	30.0000 GHz	59.3 dBi @	20.2000 GHz			
Maximum total input power at antenna flange (Watts) =					200.00			
Maximum aggregate output EIRP for all carriers (dBW) =					85.60			

**F) Remote Control Point:**

1 11717 Exploration Lane Call Sign:  
Germantown, Montgomery, MD 20876  
3014287205

**G) Antenna Structure marking and lighting requirements:**

None unless otherwise specified under Special and General Provisions

**H) Special and General Provisions**

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (IBFS) in the "Other Filings" tab within 10 days of the change.

5 --- Licensee must notify the Commission when an earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.

6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.

2300 --- Authority is granted to operate this station by remote control provided that: (1) the parameters of the transmissions of this station monitored at the remote control point, and the operational functions sufficient to ensure that the operations of this station are in full compliance with the station authorization at all times; (2) upon detection by the grantee, or upon notification from the Commission, of a deviation of the operation of this station, transmissions shall be immediately suspended until the deviation is corrected, except that transmissions concerning the immediate safety of life or property may be conducted for the duration of such emergency; and (3) the grantee shall have available, at all times, the technical personnel necessary to perform the technical servicing and maintenance of this station expeditiously. See also Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points", DA 06-978 (rel. May 4, 2006).



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## H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 9661 --- The 17.8 - 20.2 GHz band is shared with U.S. Government space stations and associated earth stations in the Fixed-Satellite Service. The satellite network of which this is a cooperating earth station is subject to coordination under US334 and operation of this earth station will be subject to any technical constraints resulting from this coordination.
- 90352 --- HNS License Sub, LLC use of the 27.85-28.35 GHz frequency band (Earth-to-space) in the United States is on a secondary basis for gateway earth station operations only. This band is designated on a primary basis to the Local Multipoint Distribution Service (LMDS). See Rulemaking to Amend Parts 1, 2, 21, and 25 of the Commission's Rules to Redesignate the 27.5- 29.5 GHz Frequency Band, to Reallocate the 29.5-30.0 GHz Frequency Band, to Establish Rules and Policies for Local Multipoint Distribution Service and for Fixed Satellite Services, Third Report and Order, FCC 97-378, 12 FCC Rcd 22310 (1997). Accordingly, HNS License Sub, LLC operations must be on an unprotected, non-harmful interference basis relative to LMDS, in accordance with 47 C.F.R. § 2.105(c)(2). HNS License Sub, LLC shall not cause harmful interference to, nor claim protection from, authorized LMDS stations in the 27.85-28.35 GHz frequency band that are presently assigned, or that may be assigned these frequencies in the future. Further, HNS License Sub, LLC must terminate operations immediately upon notification of such interference. In addition, HNS License Sub, LLC may not claim protection from interference from LMDS stations authorized to operate in this band.
- 90353 --- Operations with the Telstar 19 V (S2955) satellite are authorized upon grant of SAT-PPL-20160225-00020.
- 90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)
- 90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.



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**B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:**

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.