



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

Name: EchoStar Broadcasting Holding Corporation

Call Sign: E010266

Authorization Type: Modification of License

File Number: SES-MOD-20180410-00330

Non Common Carrier

Grant date: 05/21/2018

Expiration Date: 06/10/2032



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)	GK1	801 NORTH AMERICA SKY BLVD. GILBERT, MARICOPA, AZ 85233	33°21'59.8"N	111°48'51.7"W	371.84	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 June 10, 2017 (3 AM Eastern Standard Time) and ending June 10, 2032 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is May 21, 2019 (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)	14000.0000-14500.0000	H,V	36M0F8F	Tx	73.40	46.40	GK1		ANALOG CARRIER
2)	14000.0000-14500.0000	H,V	82K0F3N	Tx	59.50	46.40	GK1		ANALOG CARRIER
3)	14000.0000-14500.0000	H,V	1M00F2D	Tx	70.40	46.40	GK1		DIGITAL CARRIER
4)	14000.0000-14500.0000	H,V	36M0G7F	Tx	85.90	46.40	GK1		DIGITAL CARRIER
5)	14000.0000-14500.0000	H,V	750KF2D	Tx	69.10	46.40	GK1		DIGITAL CARRIER
6)	14000.0000-14004.0000	H,V	800KG2D	Tx	69.40	46.40	GK1		TELECOMMAND
7)	11450.0000-11700.0000	H,V	36M0F8F	Rx	0.00	0.00	GK1		ANALOG CARRIER
8)	11450.0000-11700.0000	H,V	82K0F3N	Rx	0.00	0.00	GK1		ANALOG CARRIER
9)	11450.0000-11700.0000	H,V	1M00F2D	Rx	0.00	0.00	GK1		DIGITAL CARRIER



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10)	11450.0000-11700.0000	H,V	36M0G7F	Rx	0.00	0.00	GK1		DIGITAL CARRIER
11)	11450.0000-11700.0000	H,V	750KF2D	Rx	0.00	0.00	GK1		DIGITAL CARRIER
12)	10950.0000-11200.0000	H,V	36M0F8F	Rx	0.00	0.00	GK1		ANALOG CARRIER
13)	10950.0000-11200.0000	H,V	82K0F3N	Rx	0.00	0.00	GK1		ANALOG CARRIER
14)	10950.0000-11200.0000	H,V	1M00F2D	Rx	0.00	0.00	GK1		DIGITAL CARRIER
15)	10950.0000-11200.0000	H,V	36M0G7F	Rx	0.00	0.00	GK1		DIGITAL CARRIER
16)	10950.0000-11200.0000	H,V	750KF2D	Rx	0.00	0.00	GK1		DIGITAL CARRIER

**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)	14000.0000-14500.0000	56.0W	-145.0W	19.8	-37.4	110.5	-229.9	-12.87	GK1
2)	10950.0000-11200.0000	56.0W	-145.0W	19.8	-37.4	110.5	-229.9		GK1
3)	11450.0000-11700.0000	56.0W	-145.0W	19.8	-37.4	110.5	-229.9		GK1

**D) Points of Communications**

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

- 1) GK1 to Permitted Space Station List



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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)
GK1	GK1	1	9	VERTEX	9 KPK	371.84	9 AGL/ 380.84 AMSL	
Max Gains(s):		60.4 dBi @	14.0000 GHz	59.2 dBi @	11.0000 GHz			
Maximum total input power at antenna flange (Watts) =					393.00			
Maximum aggregate output EIRP for all carriers (dBW) =					86.34			

**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 this 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.

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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## H) Special and General Provisions

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

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

3600-4200 MHz (space-to-Earth)

5850-6725 MHz (Earth-to-space)

10.95-11.2 GHz (space-to-Earth)

11.45-12.2 GHz (space-to-Earth)

13.75-14.5 GHz (Earth-to-space)

18.3-18.8 GHz (space-to-Earth)

19.7-20.2 GHz (space-to-Earth)

24.75-25.25 GHz (Earth-to-space)

28.35-28.6 GHz (Earth-to-space)

29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.

900409 --- Access to satellite networks of Canada shall be in compliance with the satellite coordination agreements reached between the administration of the United States and Canada

900410 --- Access to satellite networks of Mexico shall be in compliance with the satellite coordination agreements reached between the administration of the United States and Mexico.



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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.**