



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

The Boeing Company

Call Sign: E060404

Authorization Type: Renewal of License

File Number: SES-RWL-20211029-01759

Non Common Carrier

Grant date: 11/01/2021

Expiration Date: 01/22/2037

Nature of Service: Fixed Satellite Service

Class of Station: Temporary Fixed Earth Station

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	MOBILESAT2 CONUS, AK, HI, US,				NA

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 January 22, 2022 (3 AM Eastern Standard Time) and ending January 22, 2037 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is 00/00/0000. 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, L, R	10M0G7W	Tx	55.54	21.56	MOBILESAT		DIGITAL DATA SERVICE
2)	14000.0000-14500.0000	H, V, L, R	128KG7W	Tx	44.50	29.45	MOBILESAT		DIGITAL DATA SERVICE
3)	14000.0000-14500.0000	H, V, L, R	15M0G7W	Tx	55.54	19.80	MOBILESAT		DIGITAL DATA SERVICE
4)	14000.0000-14500.0000	H, V, L, R	1M00G7W	Tx	52.50	28.52	MOBILESAT		DIGITAL DATA SERVICE
5)	14000.0000-14500.0000	H, V, L, R	1M50G7W	Tx	55.00	29.26	MOBILESAT		DIGITAL DATA SERVICE
6)	14000.0000-14500.0000	H, V, L, R	20M0G7W	Tx	55.54	18.55	MOBILESAT		DIGITAL DATA SERVICE
7)	14000.0000-14500.0000	H, V, L, R	256KG7W	Tx	47.50	29.44	MOBILESAT		DIGITAL DATA SERVICE
8)	14000.0000-14500.0000	H, V, L, R	25M0G7W	Tx	55.54	17.58	MOBILESAT		DIGITAL DATA SERVICE
9)	14000.0000-14500.0000	H, V, L, R	2M00G7W	Tx	55.54	28.55	MOBILESAT		DIGITAL DATA SERVICE



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10)	14000.0000-14500.0000	H, V, L, R	30M0G7W	Tx	55.54	16.79	MOBILESAT		DIGITAL DATA SERVICE
11)	14000.0000-14500.0000	H, V, L, R	32K0G7W	Tx	38.50	29.47	MOBILESAT		DIGITAL DATA SERVICE
12)	14000.0000-14500.0000	H, V, L, R	3M00G7W	Tx	55.54	26.79	MOBILESAT		DIGITAL DATA SERVICE
13)	14000.0000-14500.0000	H, V, L, R	4M00G7W	Tx	55.54	25.54	MOBILESAT		DIGITAL DATA SERVICE
14)	14000.0000-14500.0000	H, V, L, R	512KG7W	Tx	50.50	29.43	MOBILESAT		DIGITAL DATA SERVICE
15)	14000.0000-14500.0000	H, V, L, R	5M00G7W	Tx	55.54	24.57	MOBILESAT		DIGITAL DATA SERVICE
16)	14000.0000-14500.0000	H, V, L, R	64K0G7W	Tx	41.50	29.46	MOBILESAT		DIGITAL DATA SERVICE
17)	14000.0000-14500.0000	H, V, L, R	6M00G7W	Tx	55.54	23.78	MOBILESAT		DIGITAL DATA SERVICE
18)	14000.0000-14500.0000	H, V, L, R	768KG7W	Tx	51.00	28.17	MOBILESAT		DIGITAL DATA SERVICE
19)	14000.0000-14500.0000	H, V, L, R	8M00G7W	Tx	55.54	22.53	MOBILESAT		DIGITAL DATA SERVICE
20)	11700.0000-12200.0000	H, V, L, R	10M0G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
21)	11700.0000-12200.0000	H, V, L, R	128KG7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
22)	11700.0000-12200.0000	H, V, L, R	15M0G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
23)	11700.0000-12200.0000	H, V, L, R	1M00G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
24)	11700.0000-12200.0000	H, V, L, R	1M50G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
25)	11700.0000-12200.0000	H, V, L, R	20M0G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
26)	11700.0000-12200.0000	H, V, L, R	256KG7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
27)	11700.0000-12200.0000	H, V, L, R	25M0G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
28)	11700.0000-12200.0000	H, V, L, R	2M00G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
29)	11700.0000-12200.0000	H, V, L, R	30M0G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
30)	11700.0000-12200.0000	H, V, L, R	32K0G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
31)	11700.0000-12200.0000	H, V, L, R	3M00G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
32)	11700.0000-12200.0000	H, V, L, R	4M00G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
33)	11700.0000-12200.0000	H, V, L, R	512KG7W	Rx			MOBILESAT		DIGITAL DATA SERVICE



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B) Particulars of Operations

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 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
34)	11700.0000-12200.0000	H, V, L, R	5M00G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
35)	11700.0000-12200.0000	H, V, L, R	64K0G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
36)	11700.0000-12200.0000	H, V, L, R	6M00G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
37)	11700.0000-12200.0000	H, V, L, R	768KG7W	Rx			MOBILESAT		DIGITAL DATA SERVICE
38)	11700.0000-12200.0000	H, V, L, R	8M00G7W	Rx			MOBILESAT		DIGITAL DATA SERVICE

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	10.0W	-180.0W	05.0	-05.0			-2.5	MOBILESAT
2)	11700.0000-12200.0000	10.0W	-180.0W	05.0	-05.0				MOBILESAT

D) Points of Communications

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

- 1) 1 to Permitted Space Station List

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	MOBILESAT	1	1.2	MOBILESAT	1.2M.		3 AGL	
Max Gains(s):		43.5 dBi @	14.2500 GHz	41.8 dBi @	12.0000 GHz			
Maximum total input power at antenna flange (Watts) =					16.00			
Maximum aggregate output EIRP for all carriers (dBW) =					55.54			



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F) Remote Control Point:

1	8002 S 212TH STREET	Call Sign: E060404
	KENT, KING, WA 98032	
	425-965-9758	

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 (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage 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.

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) 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.

90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.



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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.



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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 does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct 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.