

RADIO STATION AUTHORIZATION

	ame: GATR Te				ал *			E080108	20100	
	Non Common Ca	be: Modification of License arrier Grant date: 09/11/	2017	Expirati	on Date:	06/30/		SES-MOD-2	20170 MMa	706-00732
								31		
Na	ature of Service:	Fixed Satellite Service							Y#	N:
С	lass of Station: V	SAT Network					V	+ Ch	X-II	*/
A) Site Locatio	on(s)					,	South States	AISS	0.
#	Site ID	Address	Lati	tude I	Longitud		Elevati (Mete			al Provisions to Section H)
1)	Remotel	(2.4METER), 250 UNITS CONUS, AK, HI, GA 30294					¢	NA		
		Licensee certifies antenna(s) d E for special conditions placed					209.	Please ref	er to	Section
2)	Remote2							NA		
		(1.8METER), 250 UNITS CONUS, AK, HI,			ж. Э					
		Licensee certifies antenna(s) d E for special conditions placed					209.	Please ref	er to	Section
3)	Remote3	(1.2METER), 250 UNITS CONUS, AK, HI,						NA		
		Licensee certifies antenna(s) d E for special conditions placed					209.	Please ref	er to	Section
								NA		
4)	Remote4	(4.0METER), 50 UNITS CONUS, AK, HI,					•	NA		
		Licensee certifies antenna(s) d E for special conditions placed					209.	Please ref	er to	Section
-)	Demoker							UNK		
5)	Remote5	(0.75METER), 250 UNITS CONUS, AK, HI,						OINK		
		Licensee certifies antenna(s) d E for special conditions placed					209.	Please ref	er to	Section
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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 30, 2008 (3 AM Eastern Standard Time) and ending June 30, 2023 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is September 11, 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.

For the tex	a of these provisions, refe	r to section r	1.		Max	Max EIRP		Special				
#	Frequency (MHz)	Polarizatio Code	n Emission	Tx/Rx Mode	EIRP /Carrier (dBW)	Density /Carrier (dBW/4kHz)	Associated Antenna	Provisions (Refer to Section H)	Modulati Service			
1) 14000	0.0000-14500.0000	H,V	3M86G7W	Tx	60.14	30.29	1		DIGITAL VIDEO	DATA,	VOICE,	AND
2) 14000	0.0000-14500.0000	H,V	56K0G7W	$\mathbf{T}\mathbf{x}$	45.60	34.10	1		DIGITAL VIDEO	DATA,	VOICE,	AND
3) 14000	0.0000-14500.0000	H,V	7M62G7W	$\mathbf{T}\mathbf{x}$	60.14	27.34	1		DIGITAL VIDEO	DATA,	VOICE,	AND
4) 11700	0.0000-12200.0000	H,V	3M86G7W	Rx			1		DIGITAL VIDEO	DATA,	VOICE,	AND
5) 11700	0.0000-12200.0000	H,V	56K0G7W	Rx			1		DIGITAL VIDEO	DATA,	VOICE,	AND
6) 11700	0.0000-12200.0000	H,V	7M62G7W	Rx			1		DIGITAL VIDEO	DATA,	VOICE,	AND
7) 14000	0.0000-14500.0000	H,V,L,R	320KG7W	Tx	49.20	30.17	2		DIGITAL VIDEO	DATA,	VOICE,	AND
8) 14000	0.0000-14500.0000	H,V,L,R	56K0G7W	$\mathbf{T}\mathbf{x}$	43.20	31.74	2		DIGITAL VIDEO	DATA,	VOICE,	AND
9) 14000	0.0000-14500.0000	H,V,L,R	6M67G7W	Tx	59.40	27.18	2		DIGITAL VIDEO	DATA,	VOICE,	AND
10) 11700	0.0000-12200.0000	H,V,L,R	320KG7W	Rx			2		DIGITAL VIDEO	DATA,	VOICE,	AND
11) 11700	0.0000-12200.0000	H,V,L,R	56K0G7W	Rx			2		DIGITAL VIDEO	DATA,	VOICE,	AND
12) 11700	0.0000-12200.0000	H,V,L,R	6M67G7W	Rx			2		DIGITAL VIDEO	DATA,	VOICE,	AND
13) 14000	0.0000-14500.0000	H,V	320KG7W	Tx	44.60	25.60	3		DIGITAL VIDEO	DATA,	VOICE,	AND
14) 14000	0.0000-14500.0000	H,V	3M86G7W	Tx	55.40	25.60	3		DIGITAL VIDEO	DATA,	VOICE,	AND



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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.

Foi	r the text of these provisions, refe	er to Section	Н.		Max EIRP	Max EIRP Density		Special Provisions				
#	Frequency (MHz)	Polarizatio Code	on Emission	Tx/Rx Mode	/Carrier	/Carrier (dBW/4kHz)	Associated Antenna	(Refer to Section H)	Modulati Service			
15)	14000.0000-14500.0000	H,V	56K0G7W	Tx	37.10	25.60	3		DIGITAL VIDEO	DATA,	VOICE,	AND
16)	14000.0000-14500.0000	H,V	6M67G7W	Tx	57.80	25.60	3		DIGITAL VIDEO	DATA,	VOICE,	AND
17)	14000.0000-14500.0000	H,V	7M26G7W	Tx	57.80	25.60	3		DIGITAL VIDEO	DATA,	VOICE,	AND
18)	11700.0000-12200.0000	OTHER	320KG7W	Rx			3		DIGIŤAL VIDEO	DATA,	VOICE,	AND
19)	11700.0000-12200.0000	OTHER	3M86G7W	Rx			3		DIGITAL VIDEO	DATA,	VOICE,	AND
20)	11700.0000-12200.0000	OTHER	56K0G7W	Rx			3		DIGITAL VIDEO	DATA,	VOICE,	AND
21)	11700.0000-12200.0000	OTHER	6M67G7W	Rx			3.		DIGITAL VIDEO	DATA,	VOICE,	AND
22)	11700.0000-12200.0000	OTHER	7M26G7W	Rx			3		DIGITAL VIDEO	DATA,	VOICE,	AND
23)	14000.0000-14500.0000	H,V	10M0G7W	Tx	68.60	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND
24)	14000.0000-14500.0000	H,V	128KG7W	Tx	49.70	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND
25)	14000.0000-14500.0000	H,V	16M0G7W	Tx	70.60	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND
26)	14000.0000-14500.0000	H,V	1M00G7W	$\mathbf{T}\mathbf{x}$	58.60	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND
27)	14000.0000-14500.0000	H,V	24M0G7W	Tx	72.40	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND
28)	14000.0000-14500.0000	H,V	32M0G7W	Tx	73.60	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND
29)	14000.0000-14500.0000	H,V	3M86G7W	Τx	64.40	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND
30)	14000.0000-14500.0000	H,V	512KG7W	Tx	55.70	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND
31)	14000.0000-14500.0000	H,V	6M67G7W	Tx	66.80	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND
32)	14000.0000-14500.0000	H,V	7M26G7W	Tx	67.20	34.60	4		DIGITAL VIDEO	DATA,	VOICE,	AND



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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.

Foi	r the text of these provisions, refe	er to Section I	4.		Max EIRP	Max EIRP Density		Special Provisions				
#	Frequency (MHz)	Polarizatio Code	on Emission	Tx/Rx Mode	/Carrier	/Carrier (dBW/4kHz)	Associated Antenna	(Refer to Section H)	Modulati Service			
33)	11700.0000-12200.0000	H,V	10M0G7W	Rx			4		DIGITAL VIDEO	DATA,	VOICE,	AND
34)	11700.0000-12200.0000	H,V	128KG7W	Rx			4		DIGITAL VIDEO	DATA,	VOICE,	AND
35)	11700.0000-12200.0000	H,V	16M0G7W	Rx			4		DIGITAL VIDEO	DATA,	VOICE,	AND
36)	11700.0000-12200.0000	H,V	1M00G7W	Rx			4		DIGITAL VIDEO	DATA,	VOICE,	AND
37)	11700.0000-12200.0000	H,V	24M0G7W	Rx			4		DIGITAL VIDEO	DATA,	VOICE,	AND
38)	11700.0000-12200.0000	H,V	32M0G7W	Rx			4	·	DIGITAL VIDEO	DATA,	VOICE,	AND
39)	11700.0000-12200.0000	H,V	3M86G7W	Rx			4		DIGITAL VIDEO	DATA,	VOICE,	AND
40)	11700.0000-12200.0000	H,V	512KG7W	Rx			4		DIGITAL VIDEO	DATA,	VOICE,	AND
41)	11700.0000-12200.0000	H,V	6M67G7W	Rx			4		DIGITAL VIDEO	DATA,	VOICE,	AND
42)	11700.0000-12200.0000	H,V	7M26G7W	Rx			4		DIGITAL VIDEO	DATA,	VOICE,	AND
43)	14000.0000-14500.0000	H,V	320KG7W	Tx	28.93	17.50	5		DIGITAL VIDEO	DATA,	VOICE,	AND
44)	14000.0000-14500.0000	H,V	3M86G7W	Tx	36.50	17.50	5		DIGITAL VIDEO	DATA,	VOICE,	AND
45)	14000.0000-14500.0000	H,V	56K0G7W	Tx	47.32	17.50	5		DIGITAL VIDEO	DATA,	VOICE,	AND
46)	14000.0000-14500.0000	H,V	6M67G7W	Tx	49.69	17.50	5		DIGITAL VIDEO	DATA,	VOICE,	AND
47)	14000.0000-14500.0000	H,V	7M26G7W	Tx	50.06	17.50	5		DIGITAL VIDEO	DATA,	VOICE,	AND
48)	11700.0000-12200.0000	H,V	320KG7W	Rx			5		DIGITAL VIDEO	DATA,	VOICE,	AND
49)	11700.0000-12200.0000	H,V	3M86G7W	Rx			5		DIGITAL VIDEO	DATA,	VOICE,	AND
50)	11700.0000-12200.0000	H,V	56K0G7W	Rx			5		DIGITAL VIDEO	DATA,	VOICE,	AND



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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.

#or the	Frequency (MHz)	Polarizatio Code		Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulati Service			
51) 117	00.0000-12200.0000	H,V	6M67G7W	Rx			5		DIGITAL VIDEO	DATA,	VOICE,	AND
52)117	00.0000-12200.0000	H,V	7M26G7W	Rx			5		DIGITAL VIDEO	DATA,	VOICE,	AND

C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.) East West Limit Limit	Elevation (Degrees) East West Limit Limit	Azimuth (Degrees) East West Limit Limit		Associated Antenna(s)
	((ub ((intitil))	
1)	14000.0000-14500.0000	18.0W-143.0W	05.0-05.0		-10.3	4.
2)	11700.0000-12200.0000	18.0W-143.0W	05.0-05.0			4
3)	14000.0000-14500.0000	18.0W-143.0W	05.0-05.0		-9.75	1
4)	11700.0000-12200.0000	18.0W-143.0W	05.0-05.0			1
5)	14000.0000-14500.0000	18.0W-143.0W	05.0-05.0		-2.7	2
6)	11700.0000-12200.0000	18.0W-143.0W	05.0-05.0			2
7)	14000.0000-14500.0000	60.0W-143.0W	05.0-05.0		- 5	3
8)	11700.0000-12200.0000	60.0W-143.0W	05.0-05.0			3
9)	14000.0000-14500.0000	18.0W-143.0W	05.0-05.0		-30.43	5 ·
10)	11700.0000-12200.0000	18.0W-143.0W	05.0-05.0			5

D) Points of Communications

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

1) Remote4 to Permitted Space Station List

2) Remote1 to Permitted Space Station List

3) Remote2 to Permitted Space Station List

4) Remote3 to Permitted Space Station List

5) Remote5 to Permitted Space Station List



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E) Antenna Facilities

Sit		enna	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
Remote	21	1 250	2.4	GATR	GATR-COM2.4		0 AGL/ 0 AMSL	
		l input power	at antenn	14.2500 GHz a flange (Watts) ll carriers (dBW)	= 16.00	00 GHz		
Remote	2	2 250	1.8	GATR	GATR-COM1.8			
		l input power	at antenn	14.2500 GHz a flange (Watts) ll carriers (dBW)	= 40.00	00 GHz		
Remote	3	3 250	1.2	GATR	GATR-COM1.2			
		l input power	at antenn	14.2500 GHz a flange (Watts) ll carriers (dBW)	= 33.20	00 GHz		
Remote	:4	1 50	4	GATR	GATR-COM4.0			
		l input power	at antenn	14.2500 GHz a flange (Watts) ll carriers (dBW)	= 100.00	00 GHz		
Remote	.5	5 250	0.75	GATR TECHNOLOG	IES GATR-FLEX-0.75	М.		
		l input power	r at antenn	11.8500 GHz a flange (Watts) ll carriers (dBW)	= 13.45	00 GHz	· · · · ·	

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions



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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:
 - 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.
- 90052 --- When the aircraft earth station network is put into operation, the licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the network was put into operation and will remain operational during the license period unless the license is submitted for cancellation.
- 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.



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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 regulates 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.



FCC Form 488