



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

SpeedCast Communications Inc

Call Sign: E910609

Authorization Type: Modification of License

File Number: SES-MOD-20191205-01639

Non Common Carrier

Grant date:

Expiration Date: 11/29/2026

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)	RMT-10	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
2)	RMT-11	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
3)	RMT-12	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
4)	RMT-3	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
5)	RMT-4	4400 SOUTH SAM HOUSTON PKWY. CONUS (10 UNITS),				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
6)	RMT-5	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				



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A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
7)	RMT-6	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),				NA	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
8)	RMT-7	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),				NA	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
9)	RMT-8	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),				NA	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
10)	RMT-9 (KA)	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),				NA	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
11)	RMT-9 (KU)	4400 SOUTH SAM HOUSTON PKWY CONUS (10 UNITS),				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 November 29, 2011 (3 AM Eastern Standard Time) and ending November 29, 2026 (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.



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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.

#	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	10M0G7W	Tx	64.40	30.40	RMT-10		DIGITAL
2)	14000.0000-14500.0000	H, V	44K8G7W	Tx	41.60	31.10	RMT-10		DIGITAL
3)	11700.0000-12200.0000	H, V	44K8G7W	Rx			RMT-10		DIGITAL
4)	11700.0000-12200.0000	H, V	54M0G7W	Rx			RMT-10		DIGITAL
5)	14000.0000-14500.0000	H, V	4M00G7W	Tx	65.43	35.53	RMT-11		DIGITAL
6)	11700.0000-12200.0000	H, V	4M00G7W	Rx	0.00	0.00	RMT-11		DIGITAL
7)	14000.0000-14500.0000	H, V	43K0G7W	Tx	36.10	25.80	RMT-12		DIGITAL
8)	14000.0000-14500.0000	H, V	688KG7W	Tx	48.20	25.80	RMT-12		DIGITAL
9)	11700.0000-12200.0000	H, V	43K0G7W	Rx			RMT-12		DIGITAL
10)	14000.0000-14500.0000	V	220KG7W	Tx	43.90	26.50	RMT-3		QPSK, VOICE & DATA
11)	14000.0000-14500.0000	V	288KG7W	Tx	41.00	22.40	RMT-3		QPSK, VOICE & DATA
12)	14000.0000-14500.0000	V	438KG7W	Tx	40.80	20.40	RMT-3		QPSK, VOICE & DATA
13)	11700.0000-12200.0000	H	220KG7W	Rx			RMT-3		QPSK, VOICE & DATA
14)	11700.0000-12200.0000	H	288KG7W	Rx			RMT-3		QPSK, VOICE & DATA
15)	11700.0000-12200.0000	H	438KG7W	Rx			RMT-3		QPSK, VOICE & DATA
16)	14000.0000-14500.0000	H, V	220KG7D	Tx	41.90	24.50	RMT-4		DIGITAL DATA CARRIER
17)	14000.0000-14500.0000	H, V	288KG7D	Tx	43.10	24.50	RMT-4		DIGITAL DATA CARRIER
18)	14000.0000-14500.0000	H, V	438KG7D	Tx	44.90	24.50	RMT-4		DIGITAL DATA CARRIER
19)	11700.0000-12200.0000	H, V	220KG7D	Rx			RMT-4		DIGITAL DATA CARRIER
20)	11700.0000-12200.0000	H, V	288KG7D	Rx			RMT-4		DIGITAL DATA CARRIER
21)	11700.0000-12200.0000	H, V	438KG7D	Rx			RMT-4		DIGITAL DATA CARRIER
22)	14000.0000-14500.0000	H, V	220KG7D	Tx	41.90	24.50	RMT-5		DIGITAL DATA CARRIER
23)	14000.0000-14500.0000	H, V	288KG7D	Tx	43.10	24.50	RMT-5		DIGITAL DATA CARRIER
24)	14000.0000-14500.0000	H, V	438KG7D	Tx	44.90	24.50	RMT-5		DIGITAL DATA CARRIER



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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
25)	11700.0000-12200.0000	H, V	220KG7D	Rx			RMT-5		DIGITAL DATA CARRIER
26)	11700.0000-12200.0000	H, V	288KG7D	Rx			RMT-5		DIGITAL DATA CARRIER
27)	11700.0000-12200.0000	H, V	438KG7D	Rx			RMT-5		DIGITAL DATA CARRIER
28)	14000.0000-14500.0000	H, V	220KG7D	Tx	45.90	28.50	RMT-6		DIGITAL DATA CARRIER
29)	14000.0000-14500.0000	H, V	288KG7D	Tx	47.10	28.50	RMT-6		DIGITAL DATA CARRIER
30)	14000.0000-14500.0000	H, V	438KG7D	Tx	48.90	28.50	RMT-6		DIGITAL DATA CARRIER
31)	11700.0000-12200.0000	H, V	220KG7D	Rx			RMT-6		DIGITAL DATA CARRIER
32)	11700.0000-12200.0000	H, V	288KG7D	Rx			RMT-6		DIGITAL DATA CARRIER
33)	11700.0000-12200.0000	H, V	438KG7D	Rx			RMT-6		DIGITAL DATA CARRIER
34)	14000.0000-14500.0000	H, V	220KG7D	Tx	49.90	32.50	RMT-7		DIGITAL DATA CARRIER
35)	14000.0000-14500.0000	H, V	288KG7D	Tx	51.10	32.50	RMT-7		DIGITAL DATA CARRIER
36)	14000.0000-14500.0000	H, V	438KG7D	Tx	52.90	32.50	RMT-7		DIGITAL DATA CARRIER
37)	11700.0000-12200.0000	H, V	220KG7D	Rx			RMT-7		DIGITAL DATA CARRIER
38)	11700.0000-12200.0000	H, V	288KG7D	Rx			RMT-7		DIGITAL DATA CARRIER
39)	11700.0000-12200.0000	H, V	438KG7D	Rx			RMT-7		DIGITAL DATA CARRIER
40)	14000.0000-14500.0000	H, V	1M00G7D	Tx	53.30	29.30	RMT-8		DIGITAL
41)	14000.0000-14500.0000	H, V	20M0G7D	Tx	66.30	29.30	RMT-8		DIGITAL
42)	11700.0000-12200.0000	H, V	1M00G7D	Rx			RMT-8		DIGITAL
43)	11700.0000-12200.0000	H, V	20M0G7D	Rx			RMT-8		DIGITAL
44)	29300.0000-30000.0000	H, V	20M0G7D	Tx	65.70	35.70	RMT-9 (KA)		DIGITAL
45)	28350.0000-28600.0000	H, V	20M0G7D	Tx	65.70	35.70	RMT-9 (KA)		DIGITAL
46)	19700.0000-20200.0000	H, V	20M0G7D	Rx			RMT-9 (KA)		DIGITAL
47)	18300.0000-18800.0000	H, V	20M0G7D	Rx			RMT-9 (KA)		DIGITAL
48)	14000.0000-14500.0000	H, V	20M0G7D	Tx	66.30	29.30	RMT-9 (KU)		DIGITAL



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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
49)	11700.0000-12200.0000	H, V	20M0G7D	Rx			RMT-9 (KU)		DIGITAL

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	37.5W-136.0W		22.4-32.5		108.2-234.0		-15.76	RMT-3
2)	11700.0000-12200.0000	37.5W-136.0W		22.4-32.5		108.2-234.0			RMT-3
3)	14000.0000-14500.0000			05.0-05.0				-17	RMT-4
4)	11700.0000-12200.0000			05.0-05.0					RMT-4
5)	14000.0000-14500.0000			05.0-05.0				-18	RMT-5
6)	11700.0000-12200.0000			05.0-05.0					RMT-5
7)	14000.0000-14500.0000			05.0-05.0				-20	RMT-6
8)	11700.0000-12200.0000			05.0-05.0					RMT-6
9)	14000.0000-14500.0000			05.0-05.0				-16.4	RMT-7
10)	11700.0000-12200.0000			05.0-05.0					RMT-7
11)	14000.0000-14500.0000	8.0W-180.0W		10.0-10.0		090.0-270.0		-4.1	RMT-10
12)	11700.0000-12200.0000	8.0W-180.0W		10.0-10.0		090.0-270.0			RMT-10
13)	14000.0000-14500.0000	8.0W-180.0W		10.0-10.0		090.0-270.0		-7.47	RMT-11
14)	11700.0000-12200.0000	8.0W-180.0W		10.0-10.0		090.0-270.0			RMT-11
15)	14000.0000-14500.0000	8.0W-180.0W		10.0-10.0		090.0-270.0		-14.678	RMT-12
16)	11700.0000-12200.0000	8.0W-180.0W		10.0-10.0		090.0-270.0			RMT-12
17)	14000.0000-14500.0000	8.0W-180.0W		10.0-10.0		090.0-270.0		-12	RMT-8
18)	11700.0000-12200.0000	8.0W-180.0W		10.0-10.0		090.0-270.0			RMT-8
19)	14000.0000-14500.0000	8.0W-180.0W		10.0-10.0		090.0-270.0		-12	RMT-9 (KU)
20)	11700.0000-12200.0000	8.0W-180.0W		10.0-10.0		090.0-270.0			RMT-9 (KU)
21)	29300.0000-30000.0000	8.0W-180.0W		10.0-10.0		090.0-270.0		-8	RMT-9 (KA)
22)	28350.0000-28600.0000	8.0W-180.0W		10.0-10.0		090.0-270.0		-8	RMT-9 (KA)



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D) Points of Communications

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

- 1) RMT-3 to Permitted Space Station List
- 2) RMT-4 to Permitted Space Station List
- 3) RMT-5 to Permitted Space Station List
- 4) RMT-6 to Permitted Space Station List
- 5) RMT-7 to Permitted Space Station List
- 6) RMT-10 to Permitted Space Station List
- 7) RMT-11 to Permitted Space Station List
- 8) RMT-12 to Permitted Space Station List
- 9) RMT-8 to Permitted Space Station List
- 10) RMT-9(KU) to Permitted Space Station List
- 11) RMT-9(KA) 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)
RMT-10	RMT-10	10	1.5	SEATEL	6009			
Max Gains(s):		41.4 dBi @	12.2000 GHz	45.1 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =					85.11			
Maximum aggregate output EIRP for all carriers (dBW) =					64.40			
RMT-11	RMT-11	10	0.4	SPACETRACK	4024			
Max Gains(s):		47.7 dBi @	11.9500 GHz	50.1 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =					34.13			
Maximum aggregate output EIRP for all carriers (dBW) =					65.43			
RMT-12	RMT-12	10	1.03	SAILOR	900			
Max Gains(s):		40.1 dBi @	11.4500 GHz	41.6 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =					6.50			
Maximum aggregate output EIRP for all carriers (dBW) =					49.70			



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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)
RMT-3	RMT-3	10	1.5	SEATEL	6092	0	0 AGL/ 0 AMSL	
	Max Gains(s):		45.0 dBi @	14.0000 GHz	43.5 dBi @	12.0000 GHz		
	Maximum total input power at antenna flange (Watts) =				4.00			
	Maximum aggregate output EIRP for all carriers (dBW) =				49.50			
RMT-4	RMT-4	10	1	SEATEL	4003			
	Max Gains(s):		41.5 dBi @	14.0000 GHz	39.8 dBi @	12.0000 GHz		
	Maximum total input power at antenna flange (Watts) =				2.20			
	Maximum aggregate output EIRP for all carriers (dBW) =				44.90			
RMT-5	RMT-5	10	1.2	SEATEL	4996			
	Max Gains(s):		42.5 dBi @	14.0000 GHz	41.6 dBi @	12.0000 GHz		
	Maximum total input power at antenna flange (Watts) =				1.70			
	Maximum aggregate output EIRP for all carriers (dBW) =				44.90			
RMT-6	RMT-6	10	2.4	SEATEL	9797			
	Max Gains(s):		48.5 dBi @	14.0000 GHz	47.7 dBi @	12.0000 GHz		
	Maximum total input power at antenna flange (Watts) =				1.10			
	Maximum aggregate output EIRP for all carriers (dBW) =				48.90			
RMT-7	RMT-7	10	2.4	SEATEL	9997			
	Max Gains(s):		48.9 dBi @	14.0000 GHz	47.7 dBi @	12.0000 GHz		
	Maximum total input power at antenna flange (Watts) =				2.50			
	Maximum aggregate output EIRP for all carriers (dBW) =				52.90			
RMT-8	RMT-8	10	2.4	INTELLIAN	V240M			
	Max Gains(s):		47.5 dBi @	11.8500 GHz	49.0 dBi @	14.2500 GHz		
	Maximum total input power at antenna flange (Watts) =				62.60			
	Maximum aggregate output EIRP for all carriers (dBW) =				66.30			



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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)
RMT-9 (KA)	RMT-9 (KA)	10	2.4	INTELLIAN	V240MT			
Max Gains(s):		48.8 dBi @	18.7000 GHz	50.7 dBi @	28.8750 GHz			
Maximum total input power at antenna flange (Watts) =					31.60			
Maximum aggregate output EIRP for all carriers (dBW) =					65.70			
RMT-9 (KU)	RMT-9 (KU)	10	2.4	INTELLIAN	V240MT			
Max Gains(s):		47.4 dBi @	14.1250 GHz	46.5 dBi @	11.8000 GHz			
Maximum total input power at antenna flange (Watts) =					77.60			
Maximum aggregate output EIRP for all carriers (dBW) =					66.30			

F) Remote Control Point:

RMT-3	4311 F.M. 2351, VSAT (1.5M.) FRIENDSWOOD, HARRIS, TX	Call Sign: E910609
RMT-4	4400 SOUTH SAM HOUSTON PKWY. HOUSTON, HARRIS, TX 77034 832-668-2667	Call Sign: E030253
RMT-5	4400 SOUTH SAM HOUSTON PKWY. HOUSTON, HARRIS, TX 77034 832-668-2667	Call Sign: E030279

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 Communications Filing System (ICFS) using the "Pleadings and Comments" link on the ICFS homepage within 10 days of the change.

8 --- Licensee must notify the Commission when all earth stations under this authorization are no longer operational or when they have not been used to provide service during any continuous six-month period.

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 section 1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 CFR §§ 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) do(es) not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b), 1.1310. 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 updated 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 satellites must comply with 47 CFR § 25.212 levels and operations above these levels must be coordinated with satellite operators prior to operations.

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 47 CFR §§ 25.103, 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 47 CFR § 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.