



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

Name: SpeedCast Communications Inc
 Authorization Type: Renewal of License
 Non Common Carrier

Call Sign: E030170
 File Number: SES-RWL-20180919-02780
 Grant date: 11/13/2018 Expiration Date: 10/14/2033



Nature of Service: Fixed Satellite Service

Class of Station: Fixed Earth Stations

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1)	1	4400 SOUTH SAM HOUSTON PARKWAY EAST HOUSTON, HARRIS, TX 77048	29°35'54.0"N	95°20'50.0"W	16.1	83	

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.

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 October 14, 2018 (3 AM Eastern Standard Time) and ending October 14, 2033 (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)	5925.0000-6425.0000	H, V	1M85G7D	Tx	76.55	49.90	1		DIGITAL DATA CARRIER
2)	5925.0000-6425.0000	H, V	200KG7D	Tx	66.88	49.90	1		DIGITAL DATA CARRIER
3)	3700.0000-4200.0000	H, V	1M85G7D	Rx			1		DIGITAL DATA CARRIER
4)	3700.0000-4200.0000	H, V	200KG7D	Rx			1		DIGITAL DATA CARRIER
5)	5925.0000-6425.0000	H, V	1M43G7W	Tx	46.33	20.78	2		DIGITAL
6)	3700.0000-4200.0000	H, V	1M43G7W	Rx			2		DIGITAL
7)	5925.0000-6425.0000	H, V	3M28G7W	Tx	57.00	27.90	3		DIGITAL
8)	5925.0000-6425.0000	H, V	410KG7W	Tx	48.00	27.90	3		DIGITAL
9)	3700.0000-4200.0000	H, V	3M28G7W	Rx			3		DIGITAL



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10)	3700.0000-4200.0000	H, V	410KG7W	Rx			3		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)	5925.0000-6425.0000	22.0W	-143.0W	05.3	-28.6	098.1	-245.4	10.5	1
2)	3700.0000-4200.0000	22.0W	-143.0W	05.3	-28.6	098.1	-245.4		1
3)	5925.0000-6425.0000	22.0W	-143.0W	05.3	-28.6	098.1	-245.4	-27.4	2
4)	3700.0000-4200.0000	22.0W	-143.0W	05.3	-28.6	098.1	-245.4		2
5)	3700.0000-4200.0000	45.0W	-143.0W	25.9	-28.2	112.3	-245.8		3
6)	5925.0000-6425.0000	45.0W	-143.0W	25.9	-28.2	112.3	-245.8	-21.34	3

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
- 2) 1 to EUTELSAT 117 WA (S2873) @ 116.8 W.L. (France licensed)
- 3) 1 to Eutelsat 113WA (S2695) @ 113 degrees W.L. (formerly SATMEX 6) (Mexico-licensed)
- 4) 1 to AMAZONAS 1 (S2622) @ 55.5° W.L. (Brazil-licensed)
- 5) 1 to INTELSAT 707 @ 53 W.L. (U.S.-licensed)
- 6) 1 to INTELSAT 35e (S2959) @ 34.5 degrees W.L. (U.S.-licensed)
- 7) 1 to PANAMSAT 1R (PAS-1R) @ 45.0 W.L. (U.S.-licensed domestic satellite)



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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	7.6	ANDREW	7.6 ESA	16.1	7.7 AGL/ 23.85 AMSL		
		Max Gains(s): 52.6 dBi @ 6.0000 GHz		48.7 dBi @ 4.0000 GHz					
		Maximum total input power at antenna flange (Watts) =				248.30			
		Maximum aggregate output EIRP for all carriers (dBW) =				76.55			
1	2	1	2.4	SEATEL	9797	16.1	1.8 AGL/ 17.8 AMSL		
		Max Gains(s): 38.5 dBi @ 4.0000 GHz		41.7 dBi @ 6.0000 GHz					
		Maximum total input power at antenna flange (Watts) =				2.90			
		Maximum aggregate output EIRP for all carriers (dBW) =				46.32			
1	3	1	4.5	ANDREW	4.5M	16.1	4.6 AGL/ 20.75 AMSL		
		Max Gains(s): 43.9 dBi @ 4.0000 GHz		45.0 dBi @ 6.0000 GHz					
		Maximum total input power at antenna flange (Watts) =				195.00			
		Maximum aggregate output EIRP for all carriers (dBW) =				57.51			

F) Remote Control Point:

1	4400 S. SAM HOUSTON PKWY. E. HOUSTON, HARRIS, MD 77048 832-668-2300	Call Sign: E030170
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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.
- 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.



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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:

- 8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have 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 this levels must coordinate 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 §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.