

RADIO STATION AUTHORIZATION

Name: Skybox Imaging, Inc.

Call Sign: E120025

Authorization Type: Modification of License

File Number: SES-MOD-20150728-00475

Non Common Carrier

Grant date:

11/04/2015

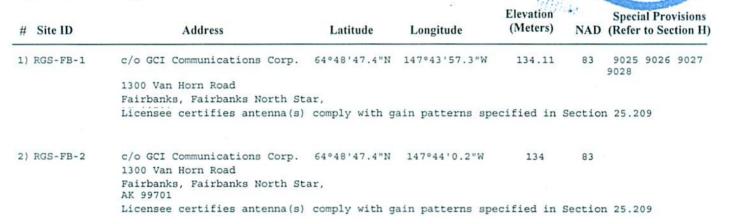
Expiration Date:

12/06/2027

Nature of Service: Earth Exploration Satellite Service

Class of Station: Fixed Earth Stations

A) Site Location(s)



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 December 6, 2012 (3 AM Eastern Standard Time) and ending December 6, 2027 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is November 4, 2016 (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)	Polarizati Code		Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1) 837	79.8720-8380.1280	H,V	256KG1D	Rx	0.00	0.00	ES 1		Digital/Telemetry
2) 837	74.8720-8375.1280	H,V	256KG1D	Rx	0.00	0.00	ES 1		Digital/Telemetry
3) 837	74.7440-8375.2560	R	512KF1D	Rx			ES 1		BPSK TELEMETRY
4) 829	95.0000-8355.0000	H,V	60M0G1D	Rx	0.00	0.00	ES 1		Digital/Data Downlink
5) 817	70.0000-8230.0000	H,V	60M0G1D	Rx	0.00	0.00	ES 1		Digital/Data Downlink



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6) 80	45.0000-8105.0000	H,V	60M0G1D	Rx	0.00	0.00	ES 1		Digital/Data Downlink
7) 20	82.8970-2083.1030	H,V	110KF1D	Тx	42.50	24.80	ES 1		Digital/Telecommand
8) 20	80.8970-2081.1030	H,V	110KF1D	Тx	42.50	24.80	ES 1		Digital/Telecommand
9) 83	79.7440-8380.2560	R	512KF1D	Rx			ES 2		BPSK TELEMETRY
10) 82	95.0000-8355.0000	R	60M0G1D	Rx			ES 2		MPSK DATA DOWNLINK
11) 81	70.0000-8230.0000	R	60M0G1D	Rx			ES 2		MPSK DATA DOWNLINK
12) 80	45.0000-8105.0000	R	60M0G1D	Rx			ES 2		MPSK DATA DOWNLINK
13) 20	82.9380-2081.0620	R	124KF1D	Тx	42.50	27.60	ES 2		FSK TELECOMMAND

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	Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
1)	2082.8970-2083.1030	NGSO	05.0-05.0	000.0-360.0	9.8	ES 1
2)	8045.0000-8105.0000	ngso	00.0-00.0	000.0-360.0	0	ES 1
3)	8170.0000-8230.0000	NGSO	00.0-00.0	000.0-360.0	0	ES 1
4)	8295.0000-8355.0000	NGSO	00.0-00.0	000.0-360.0	0	ES 1
5)	8374.8720-8375.1280	NGSO	00.0-00.0	000.0-360.0	0	ES 1
6)	8379.8720-8380.1280	NGSO	00.0-00.0	000.0-360.0	0	ES 1
7)	2080.8970-2081.1030	NGSO	05.0-05.0	000.0-360.0	9.8	ES 1
8)	2082.9380-2083.0620	NGSO	05.0-05.0	000.0-360.0	6.7	ES 2
9)	2082.9380-2081.0620	NGSO	05.0-05.0	000.0-360.0	6.7	ES 2

D) Points of Communications

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

¹⁾ RGS-FB-1 to SKYSAT (S2862) Non-Geo (U.S.-licensed satellite)

²⁾ RGS-FB-1 to SKYSAT (S2862) Non-Geo (U.S.-licensed satellite)



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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:

3) RGS-FB-2 to SKYSAT (S2862) Non-Geo (U.S.-licensed satellite)

4) RGS-FB-2 to SKYSAT (S2862) Non-Geo (U.S.-licensed satellite)

E) Antenna Facilities

Si		Antenna ID	Units	Diameter (meters)	Manufacturer		Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
RGS-FI	3-1	ES 1	1	2.4	ORBITAL SYSTEMS	LLC	2.4TSX1	134.11	4.88 AGL/ 138.88 AMSL	
	Max Gai	ns(s):	43.5	dBi @	8.2000 GHz	32.0 d	Bi @ 2.10	00 GH2		
	Maximum	total inpu	t power	at antenr	na flange (Watts)	=	15.80			
	Maximum	aggregate	output 1	EIRP for a	all carriers (dBW)	-	42.50			
RGS-FI	3-2	ES 2	1	2.4	ORBITAL SYSTEMS	LLC	2.4TSX1	134	4.88 AGL/ 138.88 AMSL	,
	Max Gai	ns(s):	43.5	dBi @	8.2000 GHz	32.0 d	Bi ⊕ 2.10	00 GHz		
	Maximum	total inpu	t power	at antenr	na flange (Watts)	=	15.80			
	Maximum	aggregate	output 1	EIRP for a	all carriers (dBW)	=	42.50			

F) Remote Control Point:

RGS-FB-1

1061 Terra Bella Avenue

Call Sign: N/A

Mountain View, Santa Clara, CA 94043

650-472-9063

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:

1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive 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:
 - 1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.
 - 2300 --- Authority is granted to operate this station by remote control provided that: (1)the parameters of the transmissions of this station monitored at the remote control point, and the operational functions sufficient to ensure that the operations of this station are in full compliance with the station authorization at all times; (2) upon detection by the grantee, or upon notification from the Commission, of a deviation of the operation of this station, transmissions shall be immediately suspended until the deviation is corrected, except that transmissions concerning the immediate safety of life or property may be conducted for the duration of such emergency; and (3) the grantee shall have available, at all times, the technical personnel necessary to perform the technical servicing and maintenance of this station expeditiously. See also Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points", DA 06-978 (rel. May 4, 2006).
 - 2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
 - 2938 --- Upon completion of construction, each licensee must file with the Commission a certification including the following information: (1) name of the licensee, (2) file number of the application, (3) call sign of the antenna, (4) date of the license, (5) certification that the facility as authorized has been completed, (6) certification that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209, and (7) certification that the station is operational (including the date of commencement of service) and will remain operational during the license period unless the license is submitted for cancellation.
 - 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).
 - 5216 --- All operations shall be on a non-common carrier basis.
 - 9025 --- Earth Station may only operate with satellites in compliance with the 47 C.F.R. Table of Allocations Footnote US90, "In the band 2025-2110 MHz, the power flux-density at the Earth's surface produced by emissions from a space station in the space operation, Earth exploration-satellite, or space research service that is transmitting in the space-to-space direction, for all conditions and all methods of modulation, shall not exceed the following values in any 4 kHz sub-band:
 - (a) -154 dBW/m2 for angles of arrival above the horizontal plane (Sigma) of 0° to 5°.
 - (b) -154 + 0.5(Sigma-5) dBW/m2 for Sigma of 5° to 25°, and
 - (c) -144 dBW/m2 for Sigma of 25° to 90°."



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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:
 - 9026 --- Earth Station may only operate in compliance with the 47 C.F.R. Section 2.106, Table of Allocations Footnote US347, "US347 In the band 2025-2110 MHz, non-Federal Earth-to-space and space-to-space transmissions may be authorized in the space research and Earth exploration-satellite services subject to such conditions as may be applied on a case-by-case basis. Such transmissions shall not cause harmful interference to Federal and non-Federal stations operating in accordance with the Table of Frequency Allocations."
 - 9027 --- This authorization is in compliance with 47 C.F.R Table of Allocations Footnote US258, "US258 In the bands 8025-8400 MHz and 25.5-27 GHz, the Earth exploration-satellite service (space-to-Earth) is allocated on a primary basis for non-Federal use. Authorizations are subject to a case-by-case electromagnetic compatibility analysis."
 - 9028 --- Operations in the 8025-8400 MHz frequency band are not protected from current and future Federal terrestrial and earth station transmitters.

(page 5 of 6) FCC Form 488



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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.

FCC Form 488

(page 6 of 6)