

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for 30-Day STA for C-band Earth Station in Ceiba, Puerto Rico

1. Applicant

| | | | |
|------------|-----------------------------------|---------------|------------------------|
| Name: | SES Americom, Inc. | Phone Number: | 202-478-7144 |
| DBA Name: | | Fax Number: | 202-478-7111 |
| Street: | 1129 20th Street NW Suite 1000 | E-Mail: | nancy.eskenazi@ses.com |
| City: | Washington | State: | DC |
| Country: | USA | Zipcode: | 20036 |
| Attention: | Ms Nancy Eskenazi | | - |



File # SES - STA-20171020 - 01188
Call Sign _____ Grant Date 10/24/2017
(or other identifier) _____
Term Dates
From 10/24/2017 To: 11/25/2017
Approved: [Signature]

Applicant: SES Americom, Inc.
Call Sign: N/A
File No.: SES-STA-20171020-01188

SES Americom, Inc. ("SES") is granted a Special Temporary Authority for 30 days, beginning October 24, 2017 to operate at fixed earth station at Ceiba, Puerto Rico, at Latitude: 18° 14' 24" N Longitude: 65° 37' 48" W, to operate with AMC-18 (S2713) satellite at 104.95° W.L. orbital location in the 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands to help restore local wireless service in Puerto Rico under the following conditions:

1. Operations shall not cause harmful interference to or claim protection from other lawfully operating stations and it shall cease transmission(s) immediately upon notice of such interference.

2. SES shall operate at 24.1 dBw/4 kHz Max EIRP Density per carrier and may only exceed 63.6 dBw/carrier if an emergency situation exists and the applicant must notify FCC OperationCenter@fcc.gov of the situation with a copy to paul.blais@fcc.gov.

3. Applicant must coordinate its operations so that no harmful interference is caused to any other lawfully operating satellites or radiocommunication systems. Applicant shall contact the following personnel prior to initiation of service for such coordination:

FCC: Roberto Mussenden (202-391-2220 (BB); 703-585-2086 (cell); 8816-41-479183 (Sat phone))

FEMA: Jarrettt Devine (Jarrett.Devine@fema.dhs.gov)

3. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future SES applications.

4. In the event of any harmful interference under this grant of STA, SES must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.

5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES's risk.

6. 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 measure must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines. *See OET bulletin 65*

7. Should an emergency situation exists and the applicant must notify FCC OperationCenter@fcc.gov of the situation with a copy to paul.blais@fcc.gov.

This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.



File # SES - STA - 2017 1020 - G1188

Call Sign _____ Grant Date 10/24/2017
(or other identifier)

Term Dates
From 10/24/2017 To: 11/25/2017

Approved: Paul E. Hays

20/2

2. Contact

| | | | |
|-------------------|----------------------------------|----------------------|---------------------|
| Name: | Karis Hastings | Phone Number: | 202-599-0975 |
| Company: | SatCom Law LLC | Fax Number: | |
| Street: | 1317 F Street, N.W. Suite 400 | E-Mail: | karis@satcomlaw.com |
| City: | Washington | State: | DC |
| Country: | USA | Zipcode: | 20004 - |
| Attention: | | Relationship: | Legal Counsel |

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number or Submission ID

4a. Is a fee submitted with this application?

- If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).
 Governmental Entity Noncommercial educational licensee
 Other (please explain):

4b. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station

5. Type Request

- Use Prior to Grant Change Station Location Other

6. Requested Use Prior Date

10/24/2017

7. City Ceiba

8. Latitude
(dd mm ss.s h) 18 14 24.0 N

| | | | |
|----------|----|---------------------------------|--------------|
| 9. State | PR | 10. Longitude (dd mm ss.s h) | 65 37 48.0 W |
|----------|----|---------------------------------|--------------|

11. Please supply any need attachments.

Attachment 1: STA Narr and Annexes Attachment 2:

Attachment 3:

12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

SES Americom, Inc. respectfully requests special temporary authority for 30 days beginning October 24, 2017 to operate an earth station in Ceiba, Puerto Rico in the conventional C-band with AMC−18 (Call Sign S2713). See attachment.

13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

Yes No

| | |
|---|--|
| 14. Name of Person Signing Nancy J. Eskenazi | 15. Title of Person Signing VP, Legal & Global Regulatory |
| WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503). | |

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. ("SES"), pursuant to Section 25.120 of the Commission's rules, respectfully requests Special Temporary Authority ("STA") for 30 days to operate an earth station in Ceiba, Puerto Rico ("Ceiba Earth Station") in the conventional C-band. The Ceiba Earth Station will communicate with AMC-18 at 104.95° W.L., which is on the Commission's Approved Space Station List for service to the U.S. market.¹ SES seeks a 30-day STA beginning no later than October 24, 2017.²

The Ceiba Earth Station will be integrated into a temporary system with other operators to help restore local wireless service in Puerto Rico. As discussed below, grant of the requested authority is in the public interest as it will allow SES to provide services that will benefit the population in Puerto Rico as it recovers from the recent hurricanes and rebuilds its telecommunications infrastructure.

Public Interest Showing

In the aftermath of Hurricane Maria, Puerto Rico lost most of its wireless coverage across the island, leaving residents without cellphone service.³ In recent reports, the Commission estimates that the vast majority of cell sites remain out of service.⁴ SES subsidiary O3b is currently providing capacity to temporarily enable local wireless services.⁵ Due to high demand for satellite services in the region, SES is deploying the Ceiba Earth Station to supplement these services. Grant of this STA request will serve the public interest because the Ceiba Earth Station will be used to bring local wireless networks in Puerto Rico online while the terrestrial infrastructure is being repaired.

Earth Station Technical Parameters

A description of the antenna and the proposed operations is provided in Annex 1, and Annex 2 sets forth the technical characteristics of the VertexRSI lightweight 2.4 meter terminal that will be used. Annex 3 contains a temporary uplink coordination report from Comsearch.

Conclusion

The requested STA will allow SES to help connect wireless services for the people of Puerto Rico as the local terrestrial networks are being repaired. Accordingly, and for good cause shown, SES respectfully requests that its STA be granted no later than October 24, 2017.

¹ See Petition for Declaratory Ruling of SES Satellites (Gibraltar) Limited, Call Sign S2713, IBFS File No. SAT-PPL-20061006-0018, granted Dec. 7, 2006.

² Actual service will be provided from October 27th to November 7th. Given the urgent need to commence service immediately, SES respectfully submits that the circumstances justify grant of authority on less than three business days' notice under Section 25.120(a).

³ See Elizabeth Weise, *Puerto Rico is nearly entirely cut off from cellphone service, leading to low tech solutions*, (Sept. 28, 2017), <https://www.usatoday.com/story/tech/2017/09/28/puerto-rico-cell-phone-service-tmobile-att-hurricane/710775001/>.

⁴ See, e.g., "Communications Status Report for Areas Impacted by Hurricane Maria," (rel. Oct. 7, 2017), available at: https://apps.fcc.gov/edocs_public/attachmatch/DOC-347131A1.pdf.

⁵ See Application of O3b Limited, IBFS File No. SES-STA-20171011-01135, granted Oct. 11 2017.

ANNEX 1: Operational Parameters

Site Details

Contact Information:

Jose Ayala
Arnie Christianson

Phone Number:
818-213-5438
202-478-7126

Geographic Coordinates:

Latitude: 18° 14' 24" N

Longitude: 65° 37' 48" W

Site Elevation:

12 meters AMSL

Antenna Details

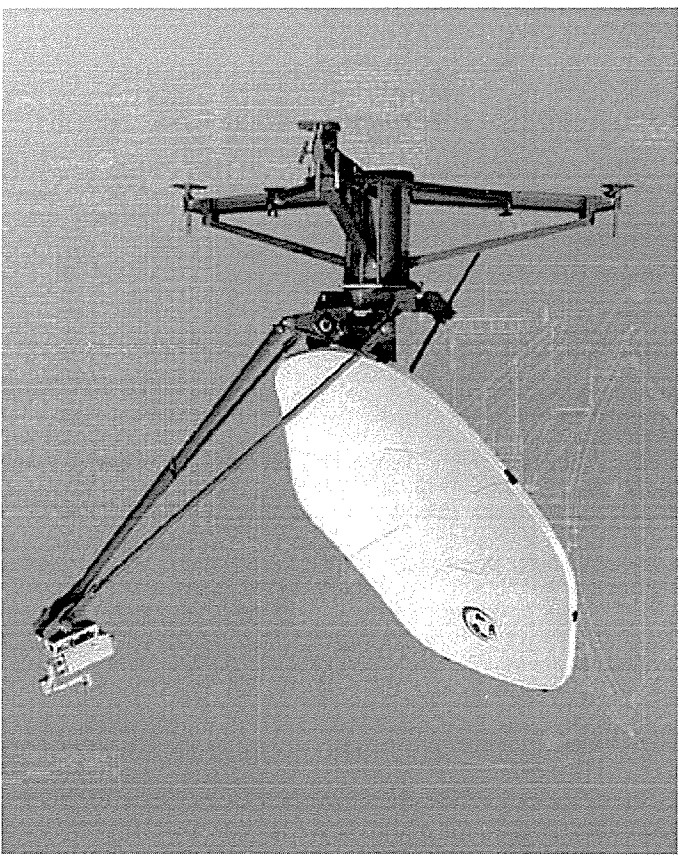
Antenna ID: Ceiba 2.4m
 Antenna Size: VertexRSI 2.4m SF Flyaway Antenna
 Antenna Gain Transmit: 42.0 dBi at 6.1 GHz
 Antenna Gain Receive: 38.2 dBi at 3.9 GHz
 Height Above Ground Level: 2 meters
 Height Above Sea Level: 12 meters
 Total Input Power at the Flange: 272 watts
 Total EIRP for the Carriers: 63.6 dBW

Operational Details

| Frequency (GHz) | Transmit/Receive | Polarization | Emission Designator | Max EIRP per Carrier (dBW) | Max EIRP Density per Carrier (dBW/4kHz) |
|-----------------|------------------|-------------------------|-----------------------------|----------------------------|---|
| 3.7-4.2 | R | Horizontal and Vertical | 36MG7D 36MG7D | 63.6 | 0.0 |
| 5.925-6.425 | T | Horizontal and Vertical | 36MG7D 36MG7D | 63.6 | 0.6 |

Model 2.4m SF Flyaway Antenna

Flyaway Antennas



The Strength to Perform

Description

The VerteXRSI lightweight 2.4-meter flyaway antenna is designed for worldwide transmit and receive operation in C, X and Ku-band. This portable antenna consists of a carbon fiber composite reflector and aluminum support structures. This results in a low-weight antenna with superior stiffness and high performance under wind loading conditions. The unique shape and the accurate reflector surface provide exceptionally low sidelobe and cross-polarization performance well within INTELSAT and EUTELSAT requirements. Repeatability is maintained with precision registration of the nine reflector segments and the feed support structure. The complete antenna system, including a single feed, is packaged in nine robust portable cases.

Features

- Carbon fiber reflector
- Lightweight, precision surface and high stiffness
- Easy deployment
- Two-person assembly, captive hardware, precision alignment
- INTELSAT type approved, EUTELSAT compliant
- High performance
- Low sidelobes and high E.I.R.P. capability

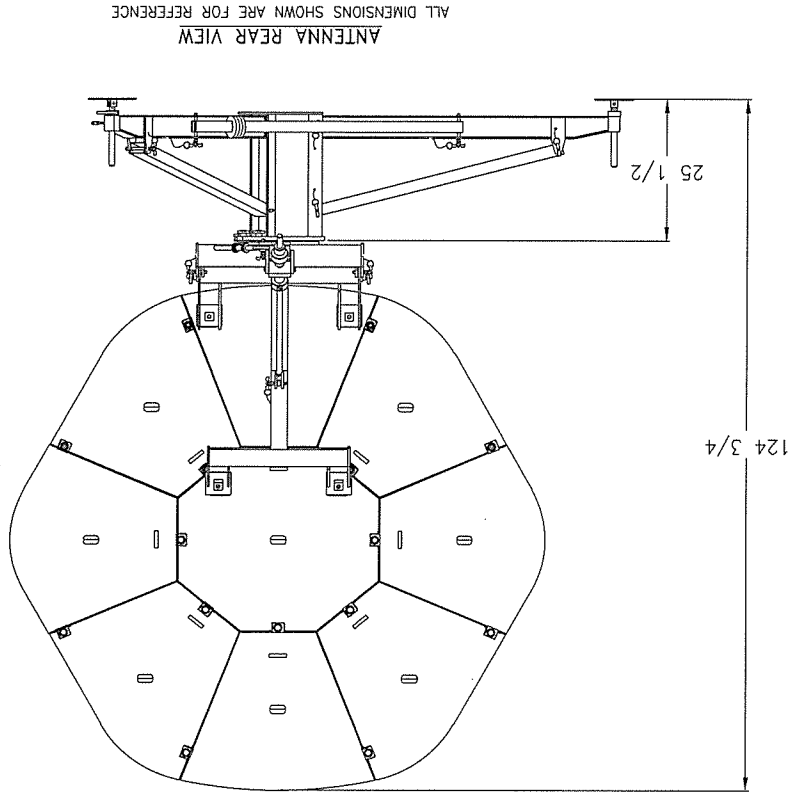
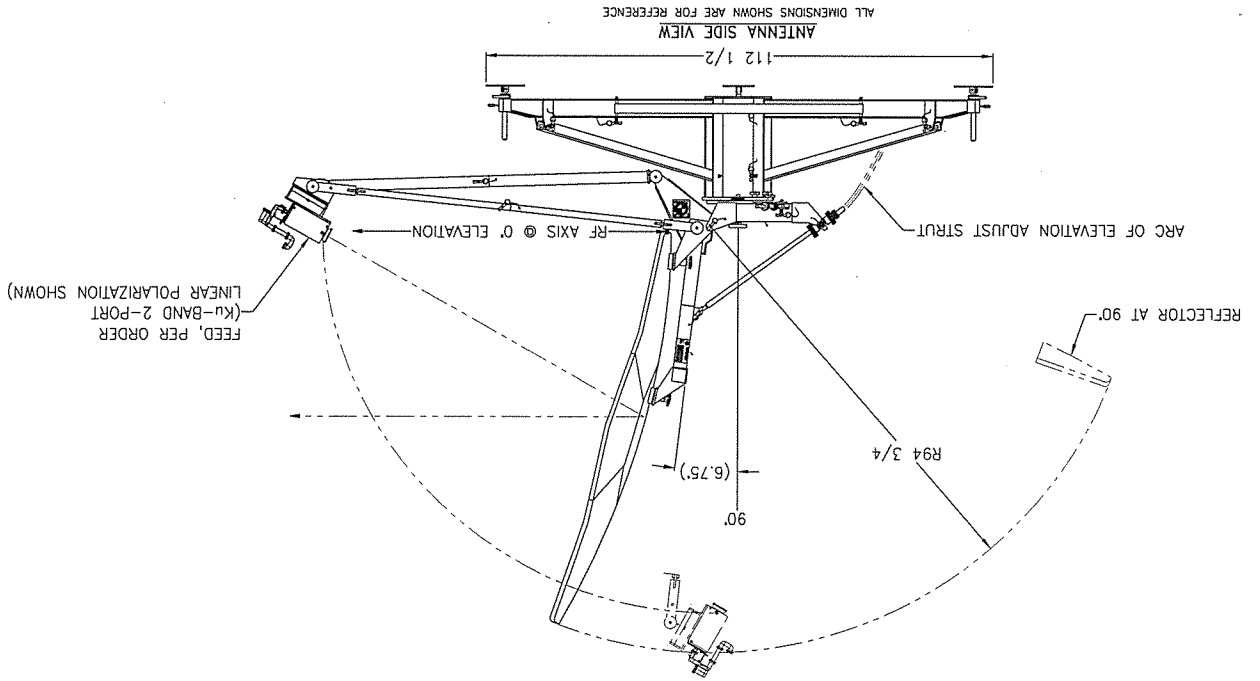
Options

- Finishes
- Green, tan or per customer spec
- Feeds
- Four-port, Co pol, CP/LP switchable, DBS, Ka-band
- Motorized polarization
- Motorization
- Az/EI motorized, tracking using pulse sensors or resolvers

Technical Specifications

| Mechanical | | | | |
|---|--|---|------------------|--------------------|
| Azimuth Travel | ±360° coarse, ±15° fine adjustment | | | |
| Elevation Travel | 0° - 90° with fine adjustment | | | |
| Polarization Travel | ±95° (linear polarization), optional motorized polarization available | | | |
| Reflector Structure | Carbon fiber composite | | | |
| Pedestal Structure | Aluminum | | | |
| Shipping Specifications | | | | |
| Case Contents | | | | |
| Case size | L x W x H | | | |
| Component weight | lbs. (kg) | | | |
| Total weight (components and case) | lbs. (kg) | | | |
| 1 | Pedestal, Az Axis Strut | 35" x 29" x 24" | 57 (25.9) | 107 (48.5) |
| 2 | T-Head, Feed Mounting Plate | 39" x 36" x 12" | 37 (16.8) | 86 (39) |
| 3 | Outrigger, Feed Boom | 60" x 20" x 12" | 63 (28.6) | 111 (50.4) |
| 4 | Outrigger, Feed Boom | 60" x 20" x 12" | 60 (27.2) | 111 (50.4) |
| 5 | Reflector Panels 1, 2 and 6 | 39" x 36" x 12" | 54 (24.5) | 99 (44.9) |
| 6 | Reflector Panels 3, 4 and 5 | 39" x 36" x 12" | 36 (16.3) | 82 (37.2) |
| 7 | Reflector Panels 7, 8 and 9 | 39" x 36" x 12" | 35 (15.9) | 81 (36.7) |
| 8 | Upper and Lower Backspine | 38" x 37" x 24" | 46 (20.9) | 122 (55.3) |
| <i>Total System</i> | | <i>8 Cases</i> | <i>388 (176)</i> | <i>799 (362.4)</i> |
| Ku-Band LP Feed (includes space for C-band LP feed) | | 34" x 28" x 24" | 15 (6.8) | 67 (30.4) |
| X-Band CP Feed | | 34" x 28" x 24" | 34 (15.4) | 89 (40.4) |
| C-Band CP Feed | | 34" x 28" x 24" | 30 (13.6) | 70 (31.8) |
| Finish (standard) | | White reflector and gray (powdercoated) positioner assembly | | |
| Environmental | | | | |
| Wind Loading | Operational (with ballast) 30 mph (48 km/h) gusting to 45 mph (73 km/h) Survival (with tie-downs) 60 mph (97 km/h) gusting to 75 mph (121 km/h) | | | |
| Pointing Loss | 2 dB peak at Ku-band (Rx) with control system | | | |
| Temperature | Operational -30° to +122° F (-34° to +50° C) Survival -40° to +140° F (-40° to +60° C) | | | |
| Relative Humidity (operational and survival) | 0% to 100% | | | |
| Solar Radiation | 360 BTU/h/ft ² (1000 Kcal/h/m ²) | | | |
| Shock and vibration | As encountered during shipment by commercial air, sea or land | | | |
| Corrosive Atmosphere | As encountered in coastal regions and/or heavily industrialized areas | | | |

Model 2.4m SF Flyaway Antenna



ANTENNA REAR VIEW
ALL DIMENSIONS SHOWN ARE FOR REFERENCE

ANTENNA SIDE VIEW
ALL DIMENSIONS SHOWN ARE FOR REFERENCE

GENERAL DYNAMICS SATCOM Technologies

1104 Energy Drive • Kilgore, TX 75662 USA • Tel: (903) 984-7811 • Fax: (903) 984-7597 • Email: kilgore-sales@gdsatcom.com
 Website: www.gdsatcom.com

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655-0016B, 02/09



COMSEARCH

A Comscope Company

October 20, 2017

Re: O3b Networks USA, LLC.
ROOSEVELT ROADS, PR
Temporary Transmit-Only Earth Station
Operation Dates: 10/27/2017 - 11/27/2017
Job Number: 171020CCOMSGE01

Dear Frequency Coordinator:

On behalf of O3b Networks USA, LLC., we are forwarding the attached coordination data for a Temporary Transmit-Only Earth Station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Gary K. Edwards
Senior Manager
gedwards@comsearch.com

Enclosure(s)

Date:

10/20/2017

Job Number:

171020COMSGE01

Administrative Information

Status
Call Sign
Licensee Code
Licensee Name
TEMPORARY (Operation from 10/27/2017 to 11/27/2017)
TEMP11
O3BNET
O3b Networks USA, LLC.

Site Information

Venue Name
Latitude (NAD 83)
Longitude (NAD 83)
Climate Zone
Rain Zone
Ground Elevation (AMSL)
Roosevelt Roads, PR
18° 14' 24.0" N
65° 37' 48.0" W
B
1
7.5 m / 24.6 ft

Link Information

Satellite Type
Mode
Modulation
Satellite Arc
Azimuth Range
Corresponding Elevation Angles
Antenna Centerline (AGL)
Geostationary
TO - Transmit-Only
Digital
104° W to 105° West Longitude
248.4° to 249.1°
41.6° / 40.7°
3.66 m / 12.0 ft

Antenna Information

Manufacturer
Model
Gain / Diameter
3-dB / 15-dB Beamwidth
Max Available RF Power
Maximum EIRP
Interference Objectives:
Long Term
Short Term

(dBW/4 kHz)
-17.9
6.1
24.1
48.1
-154.0 dBW/4 kHz
-131.0 dBW/4 kHz
20%
0.0025%

Frequency Information

Emission / Frequency Range (MHz)
36M0G7W / 5925.0 - 6005.0
36M0G7W / 6185.0 - 6425.0

Max Great Circle Coordination Distance

131.9 km / 82.0 mi

Precipitation Scatter Contour Radius

100.0 km / 62.1 mi

| Coordinate Values | | | |
|------------------------------------|------------------------|-------------------------|----------------------|
| Licensee Name | O3b Networks USA, LLC. | Latitude (NAD 83) | 18° 14' 24.0" N |
| Longitude (NAD 83) | 65° 37' 48.0" W | Ground Elevation (AMSL) | 7.5 m / 24.6 ft |
| Antenna Centerline (AGL) | 3.66 m / 12.0 ft | Antenna Model | Vertex/RSI 2.4 meter |
| Antenna Mode | Transmit 6.1 GHz | Antenna Model | Vertex/RSI 2.4 meter |
| Interference Objectives: Long Term | -154.0 dBW/4 KHz | Short Term | -131.0 dBW/4 KHz |
| Max Available RF Power | -17.9 (dBW/4 KHz) | | |
| | | Transmit 6.1 GHz | 20% |
| | | Horizon | Gain (dBi) |

| Azimuth (°) | Horizon Elevation (°) | Antenna Discrimination (°) | Horizon Gain (dBi) | Coordinate Distance (km) |
|-------------|-----------------------|----------------------------|--------------------|--------------------------|
| 0 | 0.27 | 105.75 | -10.00 | 125.05 |
| 5 | 0.00 | 109.34 | -10.00 | 131.90 |
| 10 | 0.00 | 112.92 | -10.00 | 131.90 |
| 15 | 0.00 | 116.40 | -10.00 | 131.90 |
| 20 | 0.00 | 119.73 | -10.00 | 131.90 |
| 25 | 0.00 | 122.87 | -10.00 | 131.90 |
| 30 | 0.00 | 125.84 | -10.00 | 131.90 |
| 35 | 0.00 | 128.59 | -10.00 | 131.90 |
| 40 | 0.00 | 131.09 | -10.00 | 131.90 |
| 45 | 0.00 | 133.29 | -10.00 | 131.90 |
| 50 | 0.00 | 135.16 | -10.00 | 131.90 |
| 55 | 0.00 | 136.63 | -10.00 | 131.90 |
| 60 | 0.00 | 137.67 | -10.00 | 131.90 |
| 65 | 0.00 | 138.25 | -10.00 | 131.90 |
| 70 | 0.00 | 138.34 | -10.00 | 131.90 |
| 75 | 0.00 | 137.94 | -10.00 | 131.90 |
| 80 | 0.37 | 137.42 | -10.00 | 115.66 |
| 85 | 0.90 | 136.57 | -10.00 | 100.00 |
| 90 | 1.22 | 135.08 | -10.00 | 100.00 |
| 95 | 1.22 | 132.92 | -10.00 | 100.00 |
| 100 | 1.16 | 130.40 | -10.00 | 100.00 |
| 105 | 1.16 | 127.66 | -10.00 | 100.00 |
| 110 | 1.08 | 124.64 | -10.00 | 100.00 |
| 115 | 1.47 | 121.69 | -10.00 | 100.00 |
| 120 | 1.04 | 118.16 | -10.00 | 100.00 |
| 125 | 1.04 | 114.73 | -10.00 | 100.00 |
| 130 | 1.04 | 111.19 | -10.00 | 100.00 |
| 135 | 0.43 | 107.41 | -10.00 | 112.61 |
| 140 | 0.00 | 103.67 | -10.00 | 131.90 |
| 145 | 0.00 | 99.99 | -10.00 | 131.90 |
| 150 | 0.00 | 96.29 | -10.00 | 131.90 |
| 155 | 0.00 | 92.56 | -10.00 | 131.90 |
| 160 | 0.00 | 88.82 | -10.00 | 131.90 |
| 165 | 0.00 | 85.09 | -10.00 | 131.90 |
| 170 | 0.00 | 81.38 | -10.00 | 131.90 |
| 175 | 0.00 | 77.69 | -10.00 | 131.90 |
| 180 | 0.00 | 74.05 | -10.00 | 131.90 |
| 185 | 0.00 | 70.47 | -10.00 | 131.90 |

Coordination Values
 Licensee Name
 O3b Networks USA, LLC.
 18° 14' 24.0" N
 65° 37' 48.0" W
 Ground Elevation (AMSL)
 7.5 m / 24.6 ft
 Antenna Centerline (AGL)
 3.66 m / 12.0 ft
 Antenna Model
 Vertex/RSI 2.4 meter
 Antenna Mode
 Transmit 6.1 GHz
 Interference Objectives: Long Term
 -154.0 dBW/4 kHz
 Short Term
 -131.0 dBW/4 kHz
 Max Available RF Power -17.9 (dBW/4 kHz)
 0.0025%

| Antenna Discrimination (°) | Horizon Elevation (°) | Horizon Gain (dBi) | Coordination Distance (km) |
|-------------------------------|--------------------------|-----------------------|-------------------------------|
| 102.04 | 0.34 | -10.00 | 131.90 |
| 98.29 | 0.48 | -10.00 | 131.90 |
| 94.52 | 0.87 | -10.00 | 131.90 |
| 90.67 | 0.49 | -10.00 | 131.17 |
| 86.84 | 0.84 | -10.00 | 131.90 |
| 82.98 | 1.11 | -10.00 | 103.33 |
| 79.17 | 1.04 | -10.00 | 100.00 |
| 75.26 | 1.64 | -10.00 | 100.00 |
| 71.23 | 2.58 | -10.00 | 100.00 |
| 67.65 | 2.05 | -10.00 | 100.00 |
| 63.87 | 2.40 | -10.00 | 100.00 |
| 60.17 | 2.69 | -10.00 | 100.00 |
| 56.92 | 2.30 | -10.00 | 100.00 |
| 53.44 | 2.64 | -10.00 | 100.00 |
| 50.05 | 3.07 | -10.00 | 100.00 |
| 47.46 | 2.63 | -9.91 | 100.00 |
| 44.41 | 3.21 | -9.19 | 100.00 |
| 42.15 | 3.17 | -8.62 | 100.00 |
| 40.85 | 2.51 | -8.28 | 100.00 |
| 39.70 | 2.24 | -7.97 | 100.00 |
| 39.39 | 1.64 | -7.88 | 100.00 |
| 38.74 | 1.92 | -7.70 | 100.00 |
| 38.57 | 2.27 | -7.66 | 100.00 |
| 39.65 | 1.89 | -7.96 | 100.00 |
| 40.87 | 1.89 | -8.29 | 100.00 |
| 42.25 | 2.23 | -8.65 | 100.00 |
| 44.64 | 1.88 | -9.24 | 100.00 |
| 47.64 | 1.12 | -9.95 | 100.00 |
| 50.69 | 0.58 | -10.00 | 103.33 |
| 53.38 | 0.90 | -10.00 | 100.00 |
| 56.88 | 0.21 | -10.00 | 131.17 |
| 60.23 | 0.00 | -10.00 | 131.90 |
| 63.56 | 0.00 | -10.00 | 131.90 |
| 66.96 | 0.00 | -10.00 | 131.90 |
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