



COMSEARCH[®]
A CommScope Company

September 18, 2017

Re: O3b Networks USA, LLC.
DORAL, FL
C-Band Transmit-Receive Earth Station
Job Number: 170918COMSGE02

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached coordination data on behalf of O3b Networks USA, LLC., 900 17th Street NW, Suite 300 Washington, DC 20006 for a C-Band Transmit-Receive Earth Station to be located in DORAL, FL.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s).

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that have not been resolved, please contact us by October 23, 2017.

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: 09/18/2017
Job Number: <PCNJobCode>

Administrative Information

Status ENGINEER PROPOSAL
Call Sign <PCNCallSign>
Licensee Code O3BNET
Licensee Name O3b Networks USA, LLC.

Site Information

DORAL, FL
Venue Name
Latitude (NAD 83) 25° 48' 23.3" N
Longitude (NAD 83) 80° 20' 43.0" W
Climate Zone B
Rain Zone 1
Ground Elevation (AMSL) 1.02 m / 3.4 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 20° W to 72° West Longitude
Azimuth Range 103.9° to 161.4°
Corresponding Elevation Angles 18.2° / 58.4°
Antenna Centerline (AGL) 2.74 m / 9.0 ft

Antenna Information

Manufacturer
Model
Gain / Diameter
3-dB / 15-dB Beamwidth

Receive - FCC32

Intellian
2.4 meter
38.3 dBi / 2.4 m
2.30° / 4.60°

Transmit - FCC32

Intellian
2.4 meter
41.9 dBi / 2.4 m
2.70° / 6.50°

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-17.9
6.1

Maximum EIRP (dBW/4 kHz)
(dBW/MHz)

24.0
48.0

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-154.0 dBW/4 kHz 20%
-131.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 4.0 GHz

36M0G7D / 3700.0 - 4200.0

Transmit 6.1 GHz

36M0G7D / 5925.0 - 6047.0
36M0G7D / 6080.0 - 6126.0
36M0G7D / 6179.0 - 6291.0
36M0G7D / 6370.0 - 6425.0

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius

564.6 km / 350.8 mi
585.7 km / 363.9 mi

175.2 km / 108.8 mi
100.0 km / 62.1 mi

Coordination Values		DORAL, FL			
Licensee Name		O3b Networks USA, LLC.			
Latitude (NAD 83)		25° 48' 23.3" N			
Longitude (NAD 83)		80° 20' 43.0" W			
Ground Elevation (AMSL)		1.02 m / 3.4 ft			
Antenna Centerline (AGL)		2.74 m / 9.0 ft			
Antenna Model		Intellian 2.4 meter			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
Short Term		-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power		-17.9 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	103.21	-10.00	412.20	-10.00	131.90
5	0.00	98.47	-10.00	412.20	-10.00	131.90
10	0.00	93.73	-10.00	412.20	-10.00	131.90
15	0.00	88.98	-10.00	412.20	-10.00	131.90
20	0.00	84.23	-10.00	412.20	-10.00	131.90
25	0.00	79.48	-10.00	412.20	-10.00	131.90
30	0.00	74.75	-10.00	412.20	-10.00	131.90
35	0.00	70.02	-10.00	412.20	-10.00	131.90
40	0.00	65.32	-10.00	412.20	-10.00	131.90
45	0.00	60.63	-10.00	412.20	-10.00	131.90
50	0.00	55.98	-10.00	412.20	-10.00	131.90
55	0.00	51.37	-10.00	412.20	-10.00	131.90
60	0.00	46.82	-9.76	415.18	-9.76	132.71
65	0.00	42.34	-8.67	429.05	-8.67	136.48
70	0.00	37.97	-7.49	444.63	-7.49	140.77
75	0.00	33.74	-6.20	462.14	-6.20	145.65
80	0.00	29.73	-4.83	481.09	-4.83	151.05
85	0.00	26.01	-3.38	502.59	-3.38	157.18
90	0.00	22.76	-1.93	525.07	-1.93	163.65
95	0.00	20.19	-0.63	546.03	-0.63	169.75
100	0.00	18.59	0.27	560.92	0.27	174.11
105	0.00	18.22	0.49	564.64	0.49	175.20
110	0.00	19.15	-0.05	555.61	-0.05	172.55
115	0.00	21.20	-1.16	537.43	-1.16	167.24
120	0.00	24.10	-2.55	515.38	-2.55	160.85
125	0.00	27.57	-4.01	493.12	-4.01	154.47
130	0.00	31.43	-5.43	472.40	-5.43	148.59
135	0.00	35.52	-6.76	454.45	-6.76	143.49
140	0.00	39.55	-7.93	438.74	-7.93	139.14
145	0.00	43.43	-8.94	425.52	-8.94	135.51
150	0.00	47.10	-9.82	414.38	-9.82	132.49
155	0.00	50.50	-10.00	412.20	-10.00	131.90
160	0.00	53.55	-10.00	412.20	-10.00	131.90
165	0.00	56.14	-10.00	412.20	-10.00	131.90
170	0.00	58.13	-10.00	412.20	-10.00	131.90
175	0.00	59.40	-10.00	412.20	-10.00	131.90
180	0.00	60.25	-10.00	412.20	-10.00	131.90
185	0.00	61.33	-10.00	412.20	-10.00	131.90

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Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
Short Term		-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power		-17.9 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz		Coordination Distance (km)
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)	
190	0.00	62.64	-10.00	412.20	-10.00	131.90	
195	0.00	64.15	-10.00	412.20	-10.00	131.90	
200	0.00	65.85	-10.00	412.20	-10.00	131.90	
205	0.00	67.72	-10.00	412.20	-10.00	131.90	
210	0.00	69.75	-10.00	412.20	-10.00	131.90	
215	0.00	71.91	-10.00	412.20	-10.00	131.90	
220	0.00	74.18	-10.00	412.20	-10.00	131.90	
225	0.00	76.55	-10.00	412.20	-10.00	131.90	
230	0.00	79.00	-10.00	412.20	-10.00	131.90	
235	0.00	81.51	-10.00	412.20	-10.00	131.90	
240	0.00	84.07	-10.00	412.20	-10.00	131.90	
245	0.00	86.66	-10.00	412.20	-10.00	131.90	
250	0.00	89.28	-10.00	412.20	-10.00	131.90	
255	0.00	91.89	-10.00	412.20	-10.00	131.90	
260	0.00	94.50	-10.00	412.20	-10.00	131.90	
265	0.00	97.08	-10.00	412.20	-10.00	131.90	
270	0.00	99.62	-10.00	412.20	-10.00	131.90	
275	0.00	102.11	-10.00	412.20	-10.00	131.90	
280	0.00	104.52	-10.00	412.20	-10.00	131.90	
285	0.00	106.85	-10.00	412.20	-10.00	131.90	
290	0.00	109.07	-10.00	412.20	-10.00	131.90	
295	0.00	111.17	-10.00	412.20	-10.00	131.90	
300	0.00	113.13	-10.00	412.20	-10.00	131.90	
305	0.00	114.93	-10.00	412.20	-10.00	131.90	
310	0.00	116.55	-10.00	412.20	-10.00	131.90	
315	0.00	117.97	-10.00	412.20	-10.00	131.90	
320	0.00	119.18	-10.00	412.20	-10.00	131.90	
325	0.00	120.16	-10.00	412.20	-10.00	131.90	
330	0.00	120.88	-10.00	412.20	-10.00	131.90	
335	0.00	121.36	-10.00	412.20	-10.00	131.90	
340	0.00	121.56	-10.00	412.20	-10.00	131.90	
345	0.00	117.35	-10.00	412.20	-10.00	131.90	
350	0.00	112.66	-10.00	412.20	-10.00	131.90	
355	0.00	107.94	-10.00	412.20	-10.00	131.90	